



MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

Miami Wall Systems, Inc.

701 West 25 Street

Hialeah, FL 33010

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 "101" Aluminum Window Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **101-SMI**, titled "Series 101 Aluminum Window Wall System (S.M.I.)", sheets 1 through 11 of 11, dated 10/21/14, with revision **#4** dated 09/10/24, prepared by manufacturer, signed and sealed by Jorge E. Valdes, 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, city, state, 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.

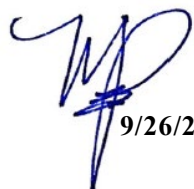
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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. **22-0613.02** 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.**




9/26/24

NOA No. 24-0916.02

Expiration Date: December 11, 2029

Approval Date: October 03, 2024

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

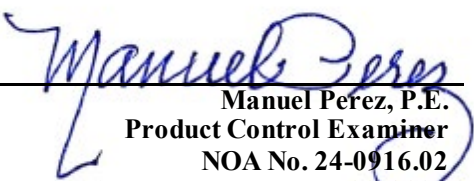
1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 14-0515.08)
2. Drawing No **101-SMI**, titled "Series 101 Aluminum Window Wall System (S.M.I.)", sheets 1 through 11 of 11, dated 10/21/14, with revision **#3** dated 04/06/22, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.
(Submitted under NOA No. 22-0613.02)

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 ASTM 588-07, and TAS 202-94
along with marked-up drawings and installation diagram of a series 101 aluminum window wall system, prepared by Blackwater Technical Services, Inc., Test Report No. **BT-MWS-21-002**, dated 02/16/22 and revised on 08/03/22, signed and sealed by Michael D. Caldwell, P.E.
(Submitted under NOA No. 22-0613.02)
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) 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 window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7783**, dated 04/24/14, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 14-0515.08)

C. CALCULATIONS

1. Anchor verification calculations and structural mullion analysis, complying with FBC (2010), dated 10/21/14, 11/12/14, updated on 10/25/19 and further revised on 06/09/22 to comply with FBC 7th Edition (2020), prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.
(Submitted under NOA No. 22-0613.02)
2. Glazing complies with **ASTM E1300-09**


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0916.02
Expiration Date: December 11, 2029
Approval Date: October 03, 2024

Miami Wall Systems, Inc.

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. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.
3. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** for their "**Saflex PVB Interlayers - Clear and Colored for Glass**" dated 04/29/21, expiring on 05/21/26.

F. STATEMENTS

1. Statement letters of conformance, complying with **FBC 7th Edition (2020)**, dated May 24, 2022, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E. **(Submitted under NOA No. 22-0613.02)**
2. Statement letters of no financial interest, dated May 24, 2022, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E. **(Submitted under NOA No. 22-0613.02)**
3. Proposal No. **14-0341** issued by the Product Control Section, dated March 28, 2014, signed by Manuel Perez, P.E. **(Submitted under NOA No. 14-0515.08)**

G. OTHERS

1. Notice of Acceptance No. **21-0318.14**, issued to Miami Wall Systems, Inc. for their Series "101" Aluminum Window Wall System – S.M.I., approved on 04/22/21 and expiring on 12/11/24.



Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0916.02
Expiration Date: December 11, 2029
Approval Date: October 03, 2024

Miami Wall Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No **101-SMI**, titled “Series 101 Aluminum Window Wall System (S.M.I.)”, sheets 1 through 11 of 11, dated 10/21/14, with revision **#4** dated 09/10/24, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

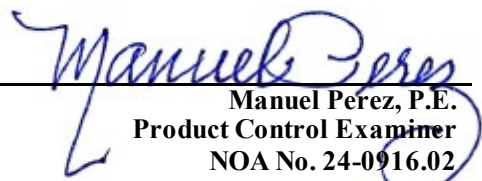
1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.
3. Notice of Acceptance No. **23-0713.18** issued to **Eastman Chemical Company (MA)** for their “**Saflex® PVB Clear and Colored Interlayers for Laminated Glass**” dated 08/17/23, expiring on 05/21/26.

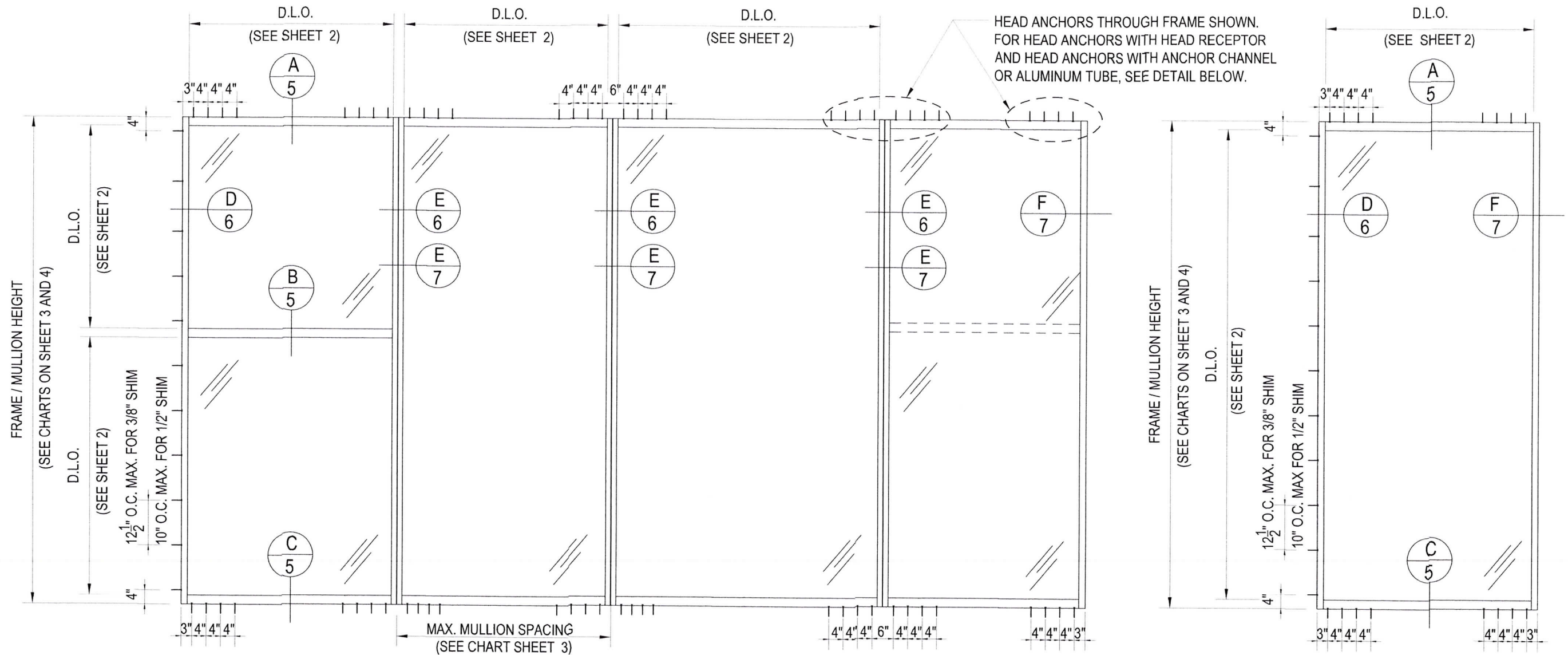
F. STATEMENTS

1. Statement letters of conformance, complying with **FBC 8th Edition (2023)**, dated September 9, 2024, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.

G. OTHERS

1. Notice of Acceptance No. **22-0613.02**, issued to Miami Wall Systems, Inc. for their Series “101” Aluminum Window Wall System – S.M.I., approved on 08/18/22 and expiring on 12/11/24.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0916.02
Expiration Date: December 11, 2029
Approval Date: October 03, 2024



TYPICAL ELEVATIONS

SERIES 101 ALUM. WINDOW WALL SYSTEM (S.M.I.)

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED LARGE MISSILE IMPACT RESISTANT DOORS AND WINDOWS. FOR CONNECTION DETAILS TO MULLION SEE SEPARATE DOOR AND WINDOW NOA. LOWEST DESIGN LOAD CAPACITY OF DOOR, WINDOW OR MULLION SHALL APPLY FOR THE ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING HIGH VELOCITY HURRICANE ZONE.

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

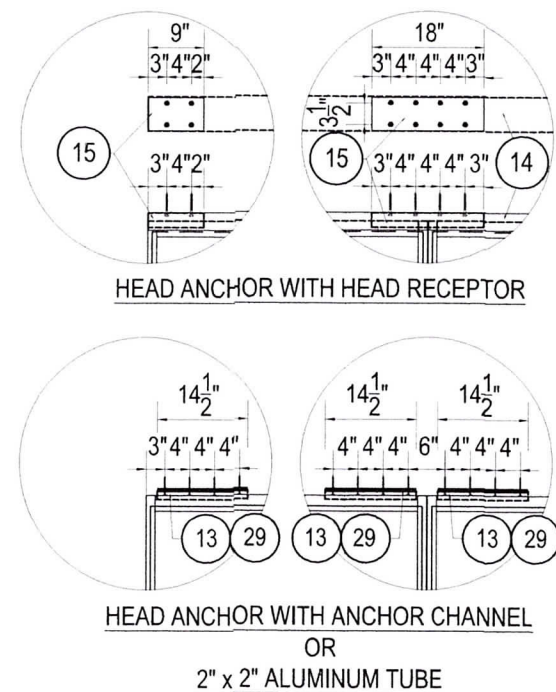
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE.

INSTRUCTIONS

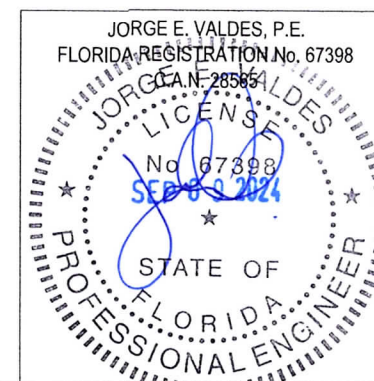
USE CHARTS AS FOLLOWS:

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE, USING THE APPLICABLE ASCE 7 STANDARD.
- STEP 2: SEE CHART ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3: CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 & 4. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEP 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

THIS SYSTEM IS RATED FOR **SMALL MISSILE IMPACT** MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT. OF GRADE. SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0916.02**
Expiration Date: **12/11/2029**
By: *Manuel Perez*
Miami-Dade Product Control



Miami Wall Systems, Inc.
701 WEST 25TH STREET
HIALEAH, FLORIDA, 33010
TEL: (305) 888-2300 FAX: (305) 888-3058

SERIES 101
ALUMINUM WINDOW WALL SYSTEM
(S.M.I.)

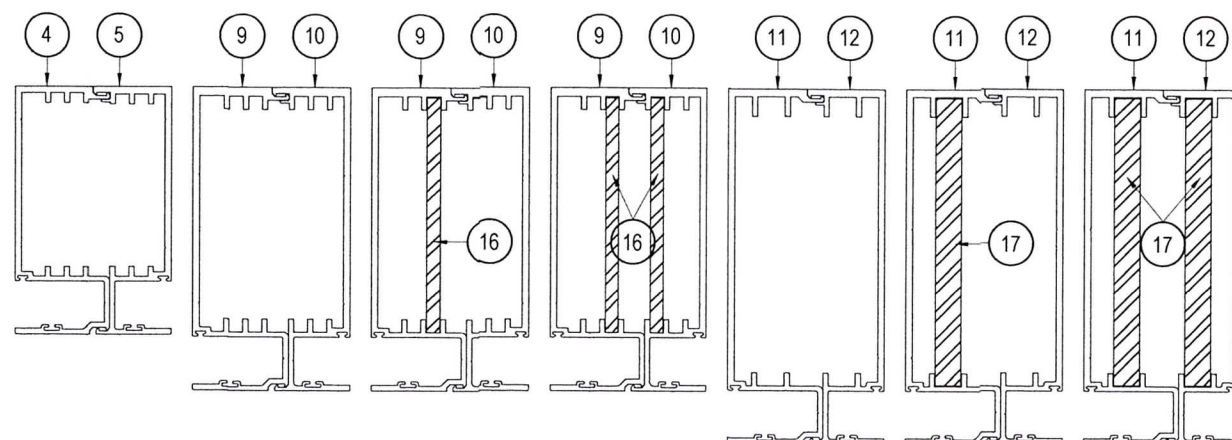
REV	DATE	DESCRIPTION
1	10/25/19	UPDATE TO 2017 FBC
2	03/05/21	UPDATE TO 2020 FBC
3	04/06/22	NOA REVISION
4	09/10/24	UPDATE TO 2023 FBC

DATE: 10/21/2014
SCALE: AS NOTED
DWG. BY: RP
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 1 OF 11

MULLION DESIGN LOAD CAPACITY - PSF													
NOMINAL DIMENSIONS (INCHES)		MULLION TYPE								ANCHOR TYPE			
		"M1"		"M2"		"M3"		"M4"		"A"	"B"	"A1"	"B1"
WIDTH (W)	FRAME HEIGHT	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)
30	72	95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
36		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
42		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
48		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
54		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	126.2	125.6	130.0	130.0
60		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	113.6	113.1	130.0	130.0
66		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	103.3	102.8	130.0	130.0
72		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	94.7	94.2	130.0	127.6
30	84	95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
36		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
42		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
48		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	121.7	121.1	130.0	130.0
54		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	108.2	107.7	130.0	130.0
60		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	97.4	96.9	130.0	130.0
66		-	-	95.0	95.0	110.0	110.0	130.0	130.0	88.5	88.1	130.0	119.3
30		96	95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0
36	95.0		95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
42	95.0		95.0	95.0	95.0	110.0	110.0	130.0	130.0	121.7	121.1	130.0	130.0
48	95.0		95.0	95.0	95.0	110.0	110.0	130.0	130.0	106.5	106.0	130.0	130.0
54	95.0		95.0	95.0	95.0	110.0	110.0	130.0	130.0	94.7	94.2	130.0	127.6
60	-		-	95.0	95.0	110.0	110.0	130.0	130.0	85.2	84.8	130.0	114.8
30	102	95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
36		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
42		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	114.6	114.0	130.0	130.0
48		95.0	95.0	95.0	95.0	110.0	110.0	130.0	130.0	100.2	99.8	130.0	130.0
54		-	-	95.0	95.0	110.0	110.0	130.0	130.0	89.1	88.7	130.0	120.1
60		-	-	95.0	95.0	110.0	110.0	130.0	130.0	80.2	79.8	130.0	108.0
30	114	-	-	95.0	95.0	110.0	110.0	130.0	130.0	130.0	130.0	130.0	130.0
36		-	-	95.0	95.0	110.0	110.0	130.0	130.0	119.6	119.0	130.0	130.0
42		-	-	95.0	95.0	110.0	110.0	130.0	130.0	102.5	102.0	130.0	130.0
48		-	-	95.0									

MULLION DESIGN LOAD CAPACITY - PSF													
NOMINAL DIMENSIONS (INCHES)		MULLION TYPE						ANCHOR TYPE					
		"M5"		"M6"		"M7"		"A"	"B"	"A1"	"B1"	"A2"	"B2"
WIDTH (W)	FRAME HEIGHT	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)
42	96	80.0	80.0	130.0	130.0	90.0	154.0	121.7	121.1	154.0	154.0	154.0	154.0
48		80.0	80.0	130.0	130.0	90.0	154.0	106.5	106.0	154.0	143.5	154.0	154.0
58		80.0	80.0	130.0	130.0	-	-	88.1	87.7	130.0	118.8	130.0	130.0
66		80.0	80.0	130.0	130.0	-	-	77.5	77.1	130.0	104.4	130.0	130.0
72		80.0	80.0	130.0	130.0	-	-	71.0	70.7	130.0	95.7	130.0	130.0
40	108	80.0	80.0	130.0	130.0	90.0	154.0	113.6	113.1	154.0	153.1	154.0	154.0
44		80.0	80.0	130.0	130.0	90.0	154.0	103.3	102.8	154.0	139.2	154.0	154.0
48		80.0	80.0	130.0	130.0	-	-	94.7	94.2	130.0	127.6	130.0	130.0
54		80.0	80.0	130.0	130.0	-	-	84.1	83.8	130.0	113.4	130.0	130.0
60		80.0	80.0	130.0	130.0	-	-	75.7	75.4	130.0	102.0	130.0	130.0
64	120	80.0	80.0	130.0	130.0	-	-	71.0	70.7	130.0	95.7	130.0	130.0
72		-	-	130.0	130.0	-	-	63.1	62.8	130.0	85.0	130.0	130.0
36		80.0	80.0	130.0	130.0	90.0	154.0	113.6	113.1	154.0	153.1	154.0	154.0
40		80.0	80.0	130.0	130.0	90.0	154.0	102.2	101.8	154.0	137.8	154.0	154.0
42		80.0	80.0	130.0	130.0	-	-	97.4	96.9	130.0	130.0	130.0	130.0
56	126	80.0	80.0	130.0	130.0	-	-	73.0	72.7	130.0	98.4	130.0	130.0
60		-	-	130.0	130.0	-	-	68.2	67.8	130.0	91.8	130.0	130.0
66		-	-	130.0	130.0	-	-	62.0	61.7	130.0	83.5	130.0	130.0
72		-	-	130.0	130.0	-	-	56.8	56.5	125.6	76.5	130.0	130.0
30		80.0	80.0	130.0	130.0	90.0	154.0	129.8	129.2	154.0	154.0	154.0	154.0
36	126	80.0	80.0	130.0	130.0	90.0	154.0	108.2	107.7	154.0	145.8	154.0	154.0
42		80.0	80.0	130.0	130.0	-	-	92.7	92.3	130.0	125.0	130.0	130.0
48		80.0	80.0	130.0	130.0	-	-	81.1	80.8	130.0	109.3	130.0	130.0
54		80.0	80.0	130.0	130.0	-	-	72.1	71.8	130.0	97.2	130.0	130.0
60		-	-	130.0	130.0	-	-	64.9	64.6	130.0	87.5	130.0	130.0
66	-	-	130.0	130.0	-	-	59.0	58.7	130.0	79.5	130.0	130.0	
30	132	80.0	80.0	130.0	130.0	90.0	154.0	123.9	123.3	154.0	154.0	154.0	154.0
36		80.0	80.0	130.0	130.0	90.0	154.0	103.3	102.8	154.0	139.2	154.0	154.0
42		80.0	80.0	130.0	130.0	-	-	88.5	88.1	130.0	119.3	130.0	130.0
48		80.0	80.0	130.0	130.0	-	-	77.5	77.1	130.0	104.4	130.0	130.0
54		80.0	80.0	130.0	130.0	-	-	68.8	68.5	130.0	92.8	130.0	130.0
60	-	-	130.0	130.0	-	-	62.0	61.7					

MULLION DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMENSIONS (INCHES)		MULLION TYPE		ANCHOR TYPE			
		"M7"		"A1"	"B1"	"A2"	"B2"
WIDTH (W)	FRAME HEIGHT	EXT(+)	INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)
30	150	95.0	95.0	95.0	95.0	95.0	95.0
36		95.0	95.0	95.0	95.0	95.0	95.0
42		95.0	95.0	95.0	95.0	95.0	95.0
48		95.0	95.0	95.0	91.8	95.0	95.0
54		95.0	95.0	95.0	81.6	95.0	95.0
60		95.0	95.0	95.0	73.5	95.0	95.0
66		95.0	95.0	95.0	66.8	95.0	95.0
68		95.0	95.0	95.0	64.8	95.0	95.0
30	156	95.0	95.0	95.0	95.0	95.0	95.0
36		95.0	95.0	95.0	95.0	95.0	95.0
42		95.0	95.0	95.0	95.0	95.0	95.0
48		95.0	95.0	95.0	88.3	95.0	95.0
54		95.0	95.0	95.0	78.5	95.0	95.0
60		95.0	95.0	95.0	70.6	95.0	95.0
66		95.0	95.0	95.0	64.2	95.0	95.0
68		95.0	95.0	95.0	62.3	95.0	95.0
30	162	95.0	95.0	95.0	95.0	95.0	95.0
36		95.0	95.0	95.0	95.0	95.0	95.0
42		95.0	95.0	95.0	95.0	95.0	95.0
48		95.0	95.0	95.0	85.0	95.0	95.0
54		95.0	95.0	95.0	75.6	95.0	95.0
60		95.0	95.0	95.0	68.0	95.0	95.0
66		95.0	95.0	95.0	61.8	95.0	95.0
68		95.0	95.0	95.0	60.0	95.0	95.0
30	168	95.0	95.0	95.0	95.0	95.0	95.0
36		95.0	95.0	95.0	95.0	95.0	95.0
42		95.0	95.0	95.0	93.7	95.0	95.0
48		95.0	95.0	95.0	82.0	95.0	95.0
54		95.0	95.0	95.0	72.9	95.0	95.0
60		95.0	95.0	95.0	65.6	95.0	95.0
66		95.0	95.0	95.0	59.6	95.0	95.0
68		95.0	95.0	95.0	57.9	95.0	95.0



MULLION "M1"
SEE CHART "A"
 $I_x = 6.960 \text{ in}^4$
 $S_x = 2.800 \text{ in}^3$

MULLION "M2"
SEE CHART "A"
 $I_x = 12.585 \text{ in}^4$
 $S_x = 4.111 \text{ in}^3$

MULLION "M3"
SEE CHART "A"

ALUM:	$I_{xa} = 12.585 \text{ in}^4$	$S_{xa} = 4.111 \text{ in}^3$
STEEL:	$I_{xs} = 1.866 \text{ in}^4$	$S_{xs} = 0.834 \text{ in}^3$
TOTAL:	$I_x = 17.996 \text{ in}^4$	

MULLION "M4"
SEE CHART "A"
ALUM: $l_{xa} = 12.585 \text{ in}^2$ $S_{xa} = 4.111 \text{ in}^3$
STEEL: $l_{xs} = 3.731 \text{ in}^4$ $S_{xs} = 1.668 \text{ in}^3$
TOTAL: $l_x = 23.406 \text{ in}^4$

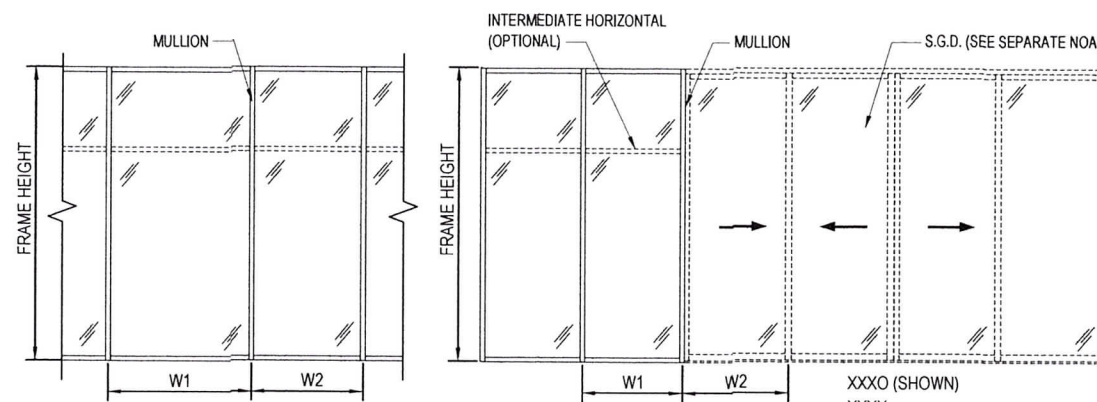
MULLION "M5"
SEE CHART "B"
 $I_x = 17.864 \text{ in}^4$
 $S_x = 5.056 \text{ in}^3$

MULLION "M6"
SEE CHART "B"

ALUM: $l_{xa} = 17.864 \text{ in}^2$	$S_{xa} = 5.056 \text{ in}^3$
STEEL: $l_{xs} = 6.932 \text{ in}^4$	$S_{xs} = 2.521 \text{ in}^3$
TOTAL: $l_x = 37.968 \text{ in}^4$	

MULLION "M7"
SEE CHART "C"

ALUM:	$l_{xa} = 17.864 \text{ in}^4$	$S_{xa} = 5.056 \text{ in}^3$
STEEL:	$l_{xs} = 13.865 \text{ in}^4$	$S_{xs} = 5.042 \text{ in}^3$
TOTAL:	$I_x = 58.071 \text{ in}^4$	



MULLION TRIBUTARY WIDTH (W)

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

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 24-0916.02
Expiration Date: 12/11/2029
By: Manuel Perez
Miami-Dade Product Control

JORGE E. VALDES, P.E.
FLORIDA REGISTRATION No. 67398
C.A.N. 28565

REV.	DATE	DESCRIPTION
1	10/25/19	UPDATE TO 2017 FBC
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4	09/10/24	UPDATE TO 2023 FBC

DATE: 10/21/2014

SCALE: AS NOTED

DWG. BY: RP

CHK. BY: JV

DWG. NO.: 101-SMI

SHEET 3 OF 11

Miami Wall Systems, Inc.

701 WEST 25TH STREET
HIALEAH, FLORIDA, 33010

TEL: (305) 888-2300 FAX: (305) 888-3058

SERIES 101
ALUMINUM WINDOW WALL SYSTEM
(S.M.I.)

CHART "D"

MULLION DESIGN LOAD CAPACITY - PSF																			
NOMINAL DIMENSIONS (INCHES)		MULLION TYPE														ANCHOR TYPE			
		"M8"					"M9"					"M10"							
WIDTH (W)	FRAME HEIGHT	REINFORCEMENT LENGTH (INCHES)					REINFORCEMENT LENGTH (INCHES)					REINFORCEMENT LENGTH (INCHES)				"A1"	"B1"	"A2"	"B2"
		120	144	168	192	FULL LENGTH	120	144	168	192	FULL LENGTH	120	144	168					
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
46	168	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
52		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
60		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
70		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
76		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84	192	-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
48		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
56		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
68		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84	204	-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
48		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
58		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
66	216	-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
78		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
48		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54	222	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
66		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
74		-	-	-	-	-	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52	228	70.0	75.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
66		-	-	-	-	-	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
72		-	-	-	-	-	69.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42	234	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
46		72.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
50		67.0	72.0	75.0	76.0	77.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
64		-	-	-	-	-	70.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
70		-	-	-	-	-	64.0	72.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36	240	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		72.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
48		63.0	68.0	71.0	72.0	73.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
54		-	-	-	-	-	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60		-	-	-	-	-	67.0	76.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
68	246	-	-	-	-	-	59.0	68.0	74.0	78.0	80.0	71.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		76.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
42		65.0	70.0	73.0	75.0	76.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
48		57.0	62.0	65.0	67.0	68.0	76.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54		-	-	-	-	-	68.0	77.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60	246	-	-	-	-	-	60.0	69.0	75.0	80.0	80.0	72.0	80.0	80.0	80.0	75.4	45.9	80.0	80.0
66		-	-	-	-	-	55.0	63.0	69.0	73.0	75.0	66.0	78.0	80.0	80.0	68.5	41.7	80.0	80.0
36		70.0	76.0	80.0	80.0	80.0 *	80.0	80.0	80.0	80.0	80.0 *	80.0	80.0	80.0	80.0	80.0	74.7	80.0	80.0
42		60.0	65.0	68.0	71.0	72.0 *	79.0	80.0	80.0	80.0	80.0 *	80.0	80.0	80.0	80.0	80.0	64.0	80.0	80.0
48		52.0	57.0	60.0	62.0	63.0 *	69.0	80.0	80.0	80.0	80.0 *	80.0	80.0	80.0	80.0	80.0	56.0	80.0	80.0
54	246	-	-	-	-	-	63.0	75.0	78.0	80.0	80.0 *	73.0	80.0	80.0	80.0	80.0	49.8	80.0	80.0
60		-	-	-	-	-	55.0	63.0	70.0	74.0	77.0 *	65.0	78.0	80.0	80.0	73.5	44.8	80.0	80.0
66		-	-	-	-	-	50.0	58.0	64.0	68.0	70.0 *	60.0	71.0	80.0	80.0	66.8	40.7	80.0	80.0

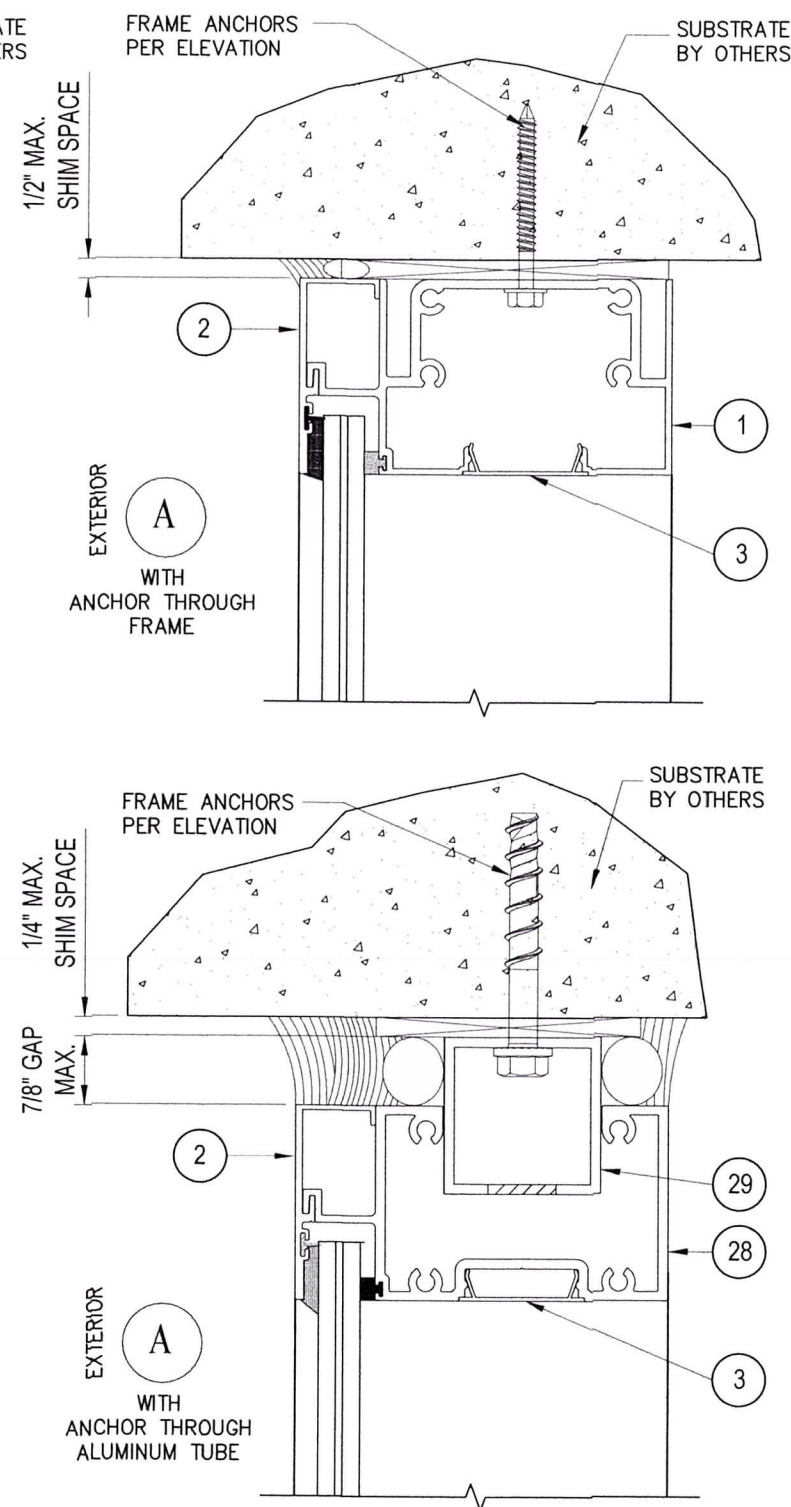
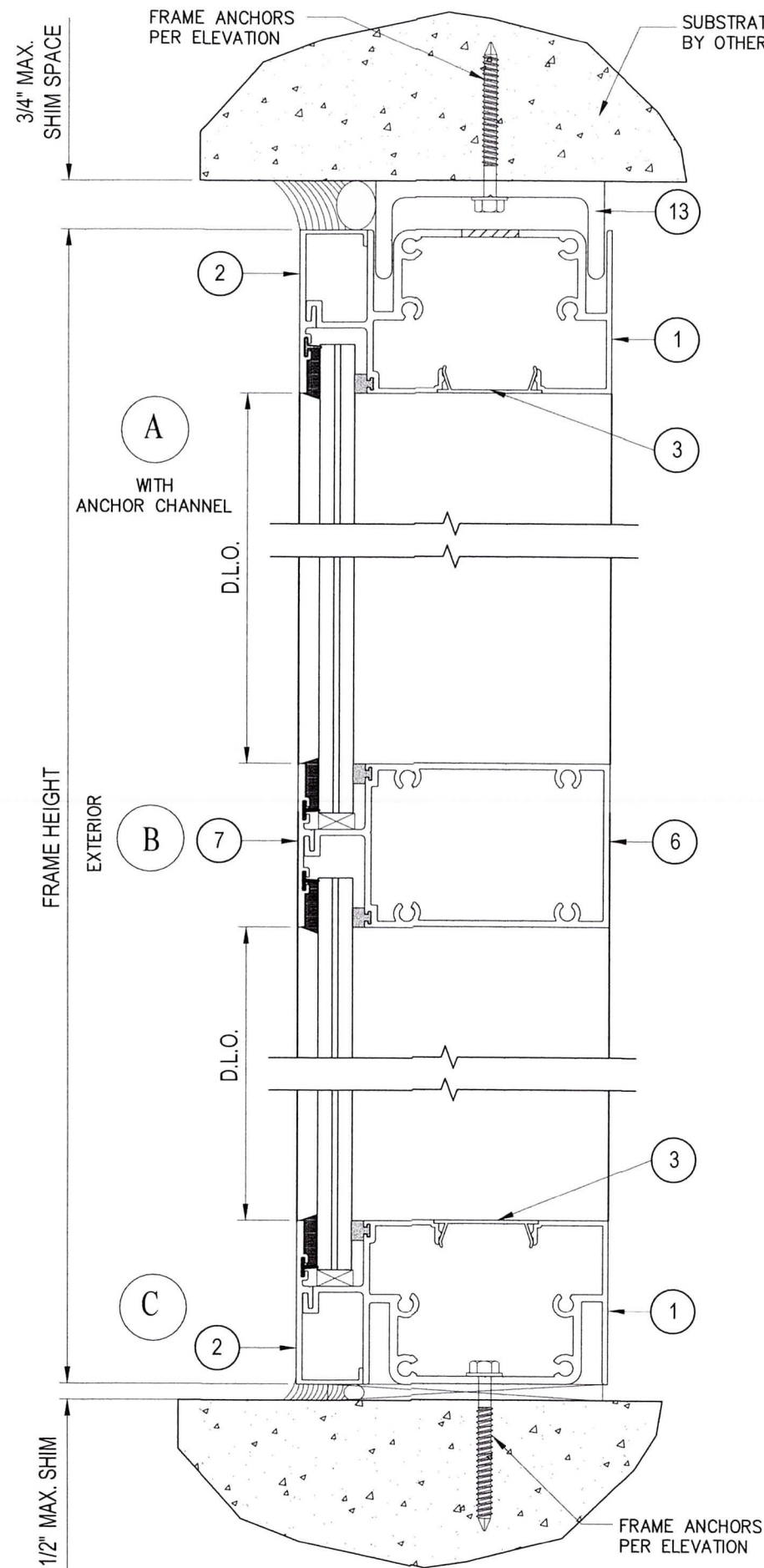
(*) REINFORCEMENT LENGTH IS LIMITED TO 240"

NOTES:

- ALL STEEL REINFORCEMENT ON THIS CHART TO BE CENTERED AT MULL MID SPAN
- REINFORCEMENT LENGTH AT MULLIONS TO BE A MINIMUM OF 120"
SEE CHART "D" ON THIS SHEET TO DETERMINE LENGTH REQUIRED TO MEET PROJECT WIND LOADS
- REINFORCEMENT LENGTH AT "J2" TO BE FULL MULL LENGTH
- REINFORCEMENT LENGTH AT "J3" TO BE A MINIMUM OF 60"

CHART "E"

FREE STANDING JAMB DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMENSIONS (INCHES)		JAMB TYPE			SILICONE GAP (INCHES)	
		"J1"	"J2"	"J3"		
WIDTH (W)	FRAME HEIGHT	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	MIN.	MAX.
24	122	130	80.0	80.0	3/8	1
30		130	80.0	80.0		
42		-	80.0	80.0		
24	168	-	80.0	80.0	5/8	1 1/8
30		-	80.0	80.0		
35		-	80.0	80.0		
22	192	-	80.0	80.0	5/8	1 1/8
24		-	80.0	80.0		
30		-	80.0	80.0		
22	204	-	80.0	80.0	3/4	1 1/4
24		-	80.0	80.0		
29		-	80.0	80.0		
22	216	-	80.0	80.0	3/4	1 1/4
24		-	80.0	80.0		
27		-	80.0	80.0		
18	222	-	80.0	80.0	3/4	1 1/4
22		-	80.0	80.0		
26		-	76.0	80.0		
18	228	-	80.0	80.0	3/4	1 1/4
21		-	80.0	80.0		
25		-	72.0	80.0		
18	234	-	80.0	80.0	3/4	1 1/4
21		-	80.0	80.0		
25		-	67.0	80.0		
18	240	-	80.0	80.0	3/4	1 1/4
21		-	74.0	80.0		
24		-	64.0	80.0		
18	246	-	80.0	80.0	3/4	1 1/4
21		-	68.0	80.0		
24		-	60.0	80.0		



TYPICAL ANCHORS: (SEE ELEV. FOR SPACING)

AT HEAD & SILL

TYPE. "A": 1/4" DIA. ULTRACON BY "DEWALT" (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE WITH 1-3/4" MIN. EMBED, f'c=3000 PSI

TYPE. "A1": 5/16" DIA. ULTRACON BY "DEWALT" (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE WITH 2" MIN. EMBED, f'c=3515 PSI

TYPE. "A2": 3/8" DIA. SCREW-BOLT BY "DEWALT" (Fu=120 KSI, Fy= 92 KSI)
DIRECTLY INTO CONCRETE WITH 1-1/2" MIN. EMBED, f'c=3000 PSI

TYPE. "B": 1/4" DIA. DRILL FLEX OR SELF DRILLING SCREWS (Fu=92 KSI, Fy=120 KSI)

TYPE. "B1": 5/16" DIA. DRILL FLEX OR SELF DRILLING SCREWS (Fu=92 KSI, Fy=120 KSI)

TYPE. "B2": 3/8" DIA. TAP-FLEX (Fu=120 KSI, Fy= 92 KSI)

INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL: 1/8" THICK MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" THICK MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT JAMBS

1/4" DIA. ULTRACON BY "DEWALT" (Fu=164 KSI, Fy=148 KSI)
THRU 1BY BUCKS, 1-3/4" MIN. CONC. OR MASONRY EMBEDMENT
DIRECTLY INTO CONCRETE OR MASONRY WITH 1-3/4" MIN. EMBED

1/4" DIA. DRILL FLEX OR SELF DRILLING SCREWS (Fu=92 KSI, Fy=120 KSI)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL: 1/8" THICK MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" THICK MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE:

INTO CONCRETE = 2-1/2" MIN. FOR 1/4" DIA. ANCHORS
= 3-1/8" MIN. FOR 5/16" DIA. ANCHORS
= 2-3/8" MIN. FOR 3/8" DIA. SCREW-BOLTS

INTO METAL STRUCTURES = 3/4" 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. **24-0916.02**
Expiration Date: **12/11/2029**
By: *Manuel Torres*
Miami-Dade Product Control

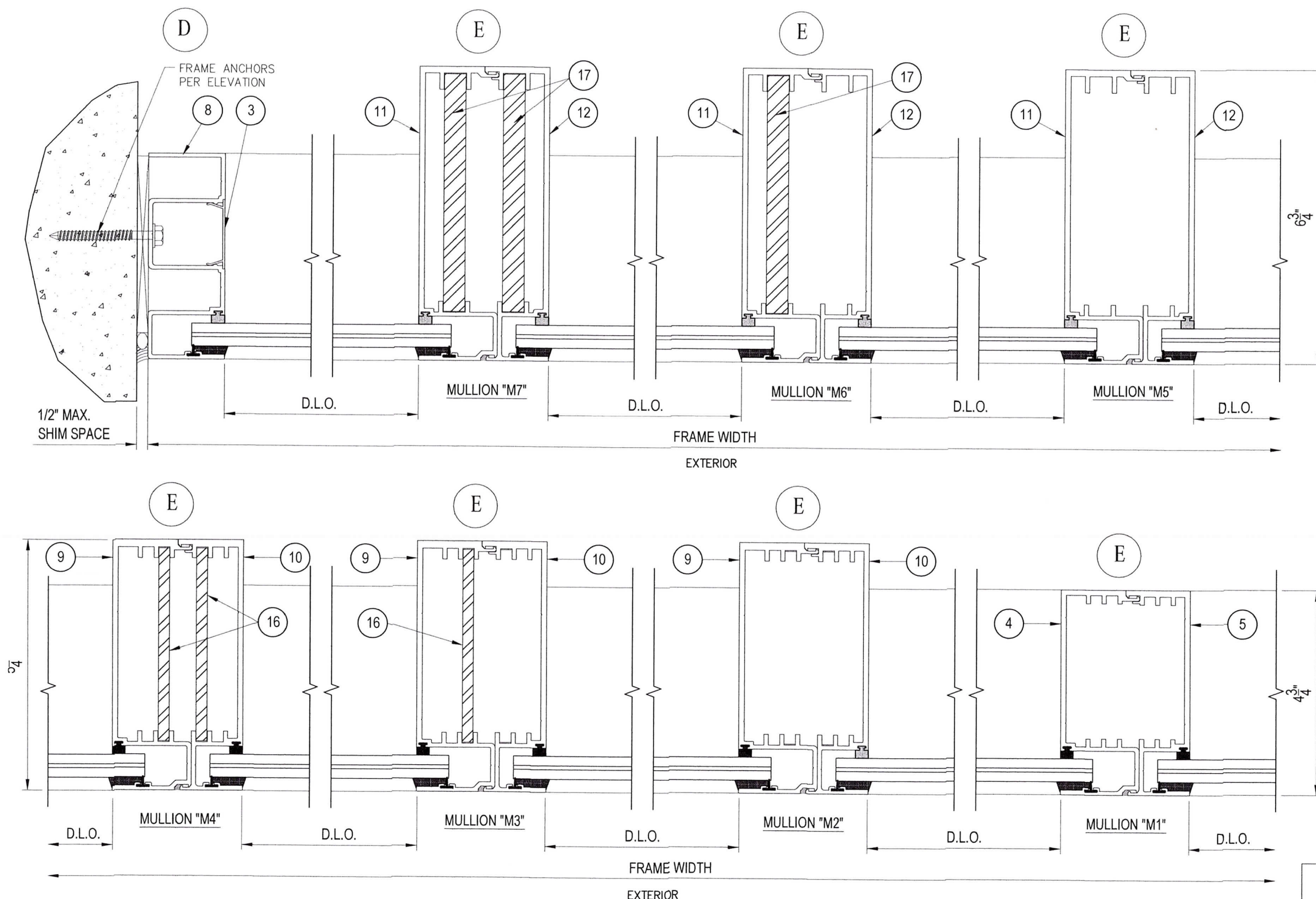
JORGE E. VALDES, P.E.
FLORIDA REGISTRATION No. 67398
C.A.M. 28565
SEP 19 2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Miami Wall Systems, Inc.
701 WEST 25TH STREET
HIALEAH, FLORIDA, 33010
TEL: (305) 888-2300 FAX: (305) 888-3058

SERIES 101
ALUMINUM WINDOW WALL SYSTEM
(S.M.I.)

REV.	DATE	DESCRIPTION
1	10/25/19	UPDATE TO 2017 FBC
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4	09/10/24	UPDATE TO 2023 FBC

DATE: 10/21/2014
SCALE: AS NOTED
DWG. BY: RP
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 5 OF 11



MULLION PROPERTIES AND DESIGN LOAD CAPACITY, SEE CHARTS "A", "B" & "C", SHEET 3 OF 11

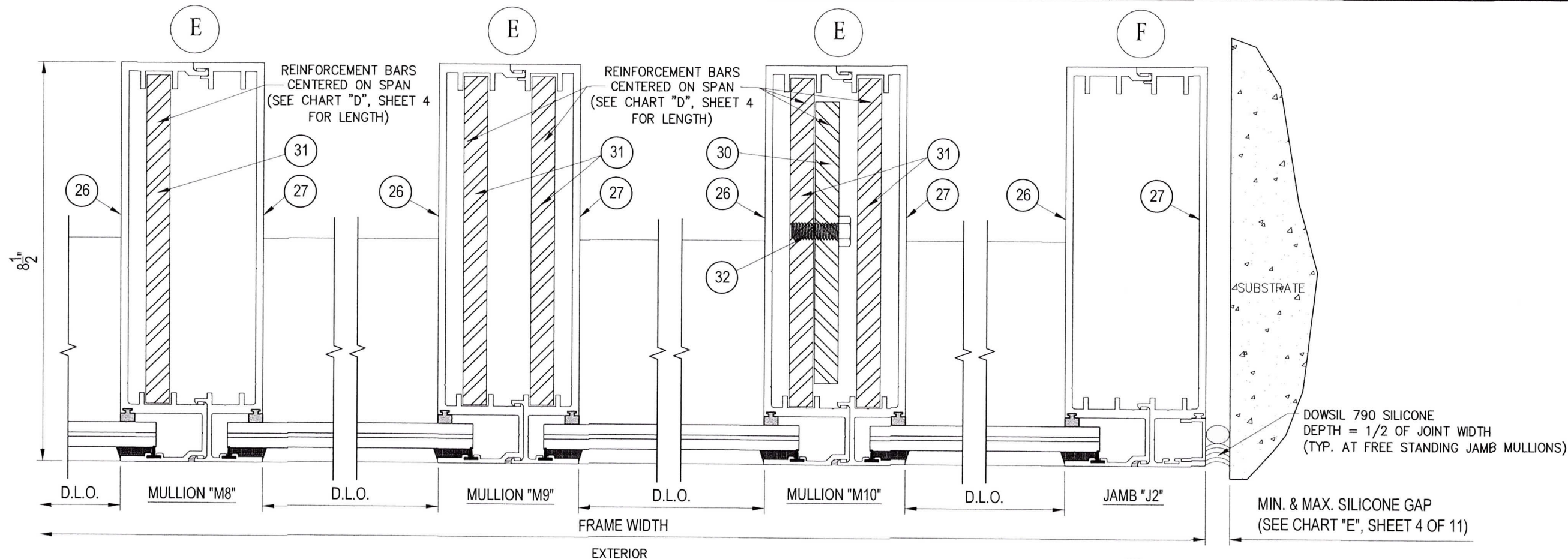
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 Miami-Dade Product Control

JORGE E. VALDES, P.E.
 FLORIDA REGISTRATION No. 67398
 C.A.N. 28565
 No. 67398
 SEP 09 2024
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

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DATE: 10/21/2014		
SCALE: AS NOTED		
DWG. BY: RP		
CHK. BY: JV		
DWG. NO.: 101-SMI		
SHEET 6 OF 11		

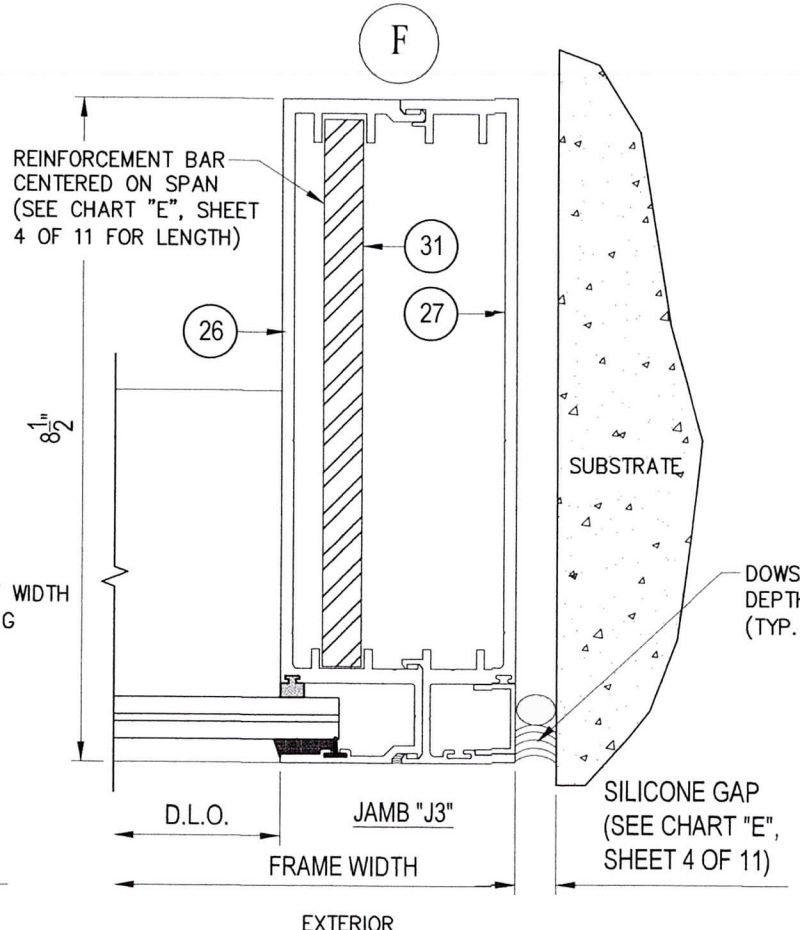
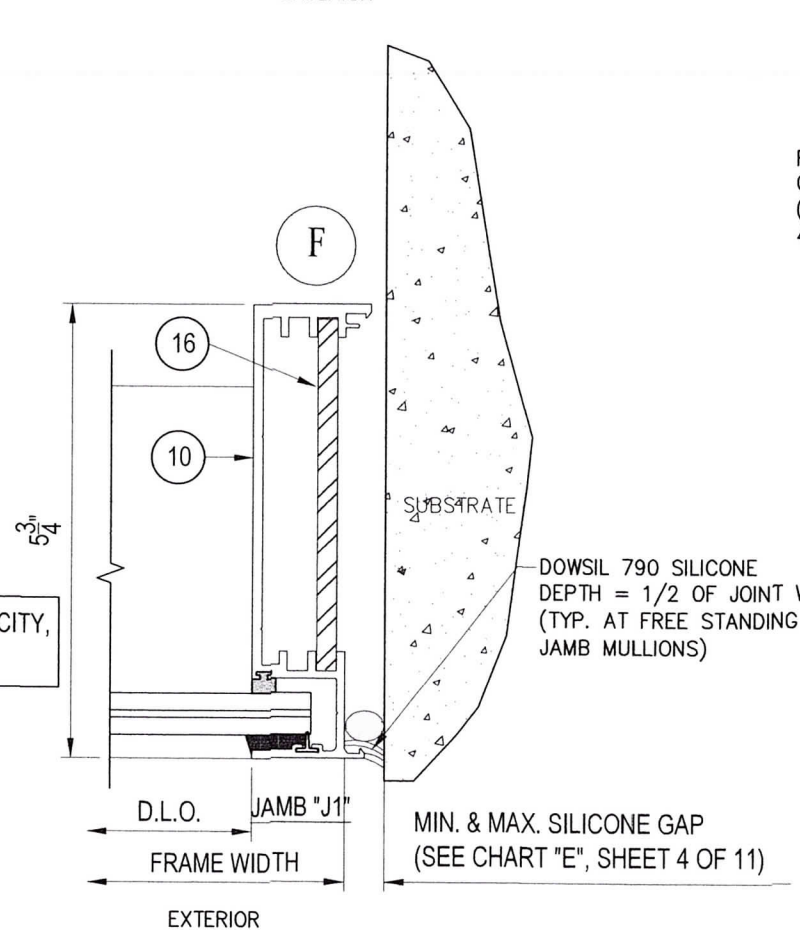
SERIES 101
ALUMINUM WINDOW WALL SYSTEM
 (S.M.I.)

Miami Wall Systems, Inc.
 701 WEST 25TH STREET
 HIALEAH, FLORIDA, 33010
 TEL: (305) 888-2300 FAX: (305) 888-3058



MULLION PROPERTIES AND DESIGN LOAD CAPACITY,
SEE CHART "D", SHEET 4 OF 11

FREE STANDING JAMB PROPERTIES AND DESIGN LOAD CAPACITY,
SEE CHART "E", SHEET 4 OF 11



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By: *Manuel Jerez*
Miami-Dade Product Control

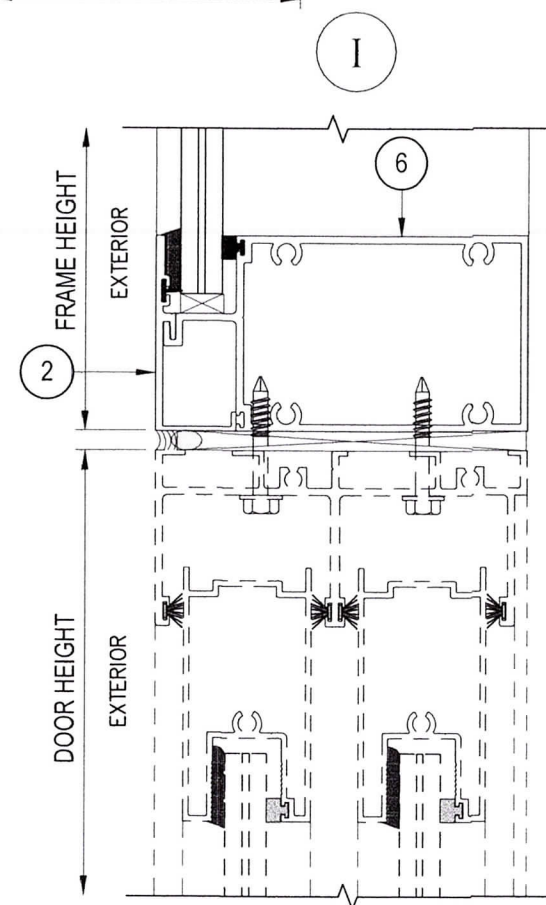
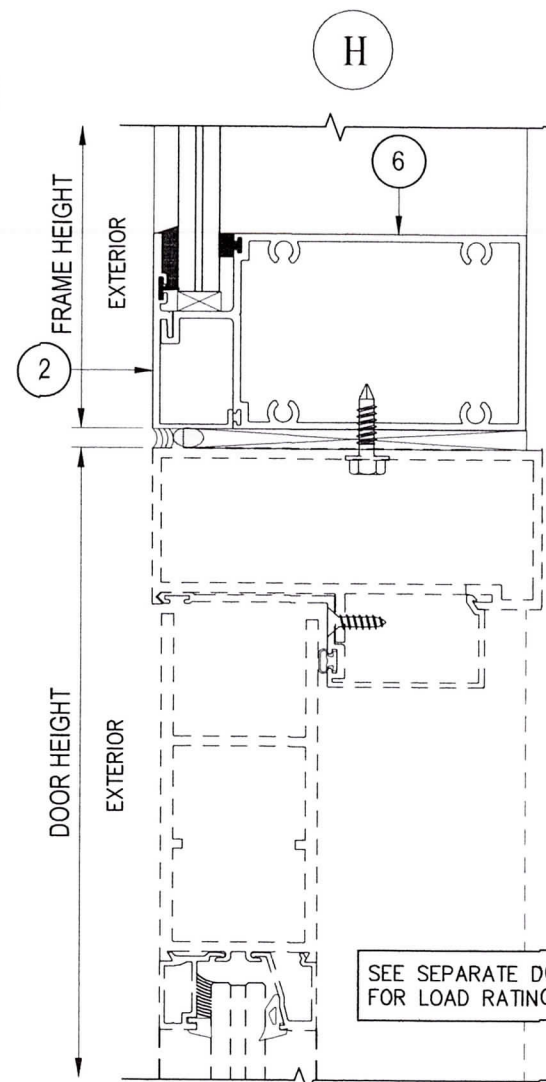
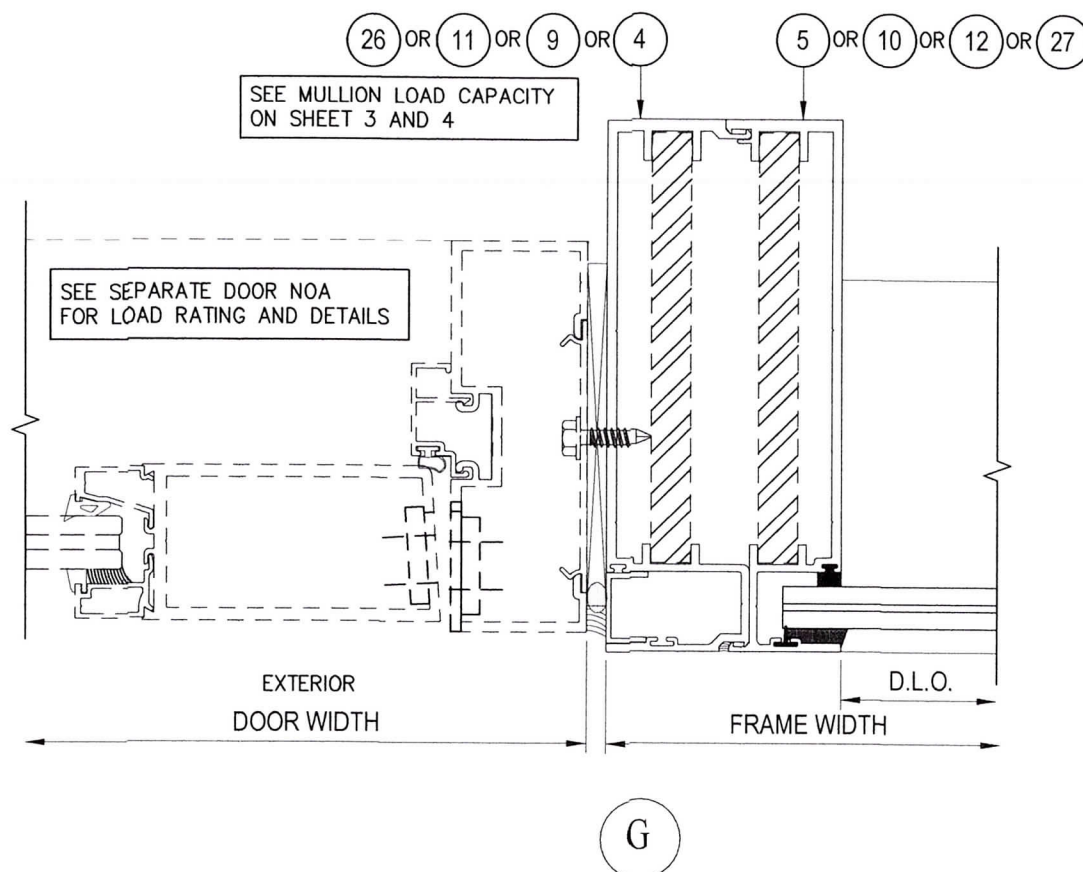
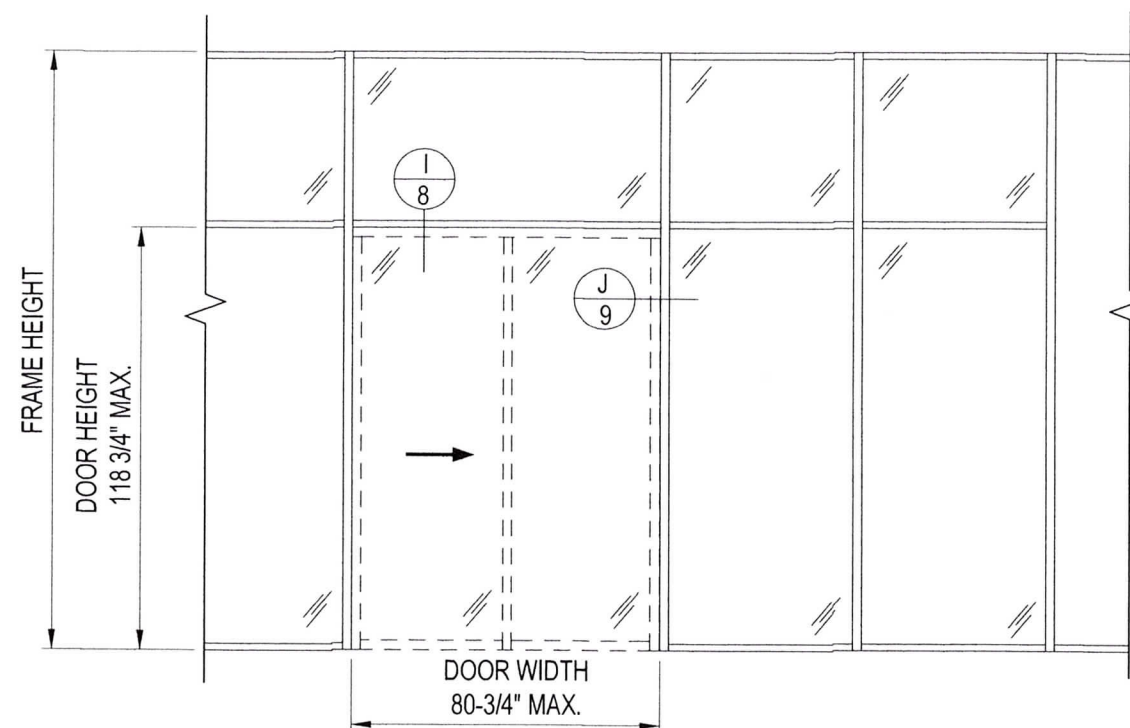
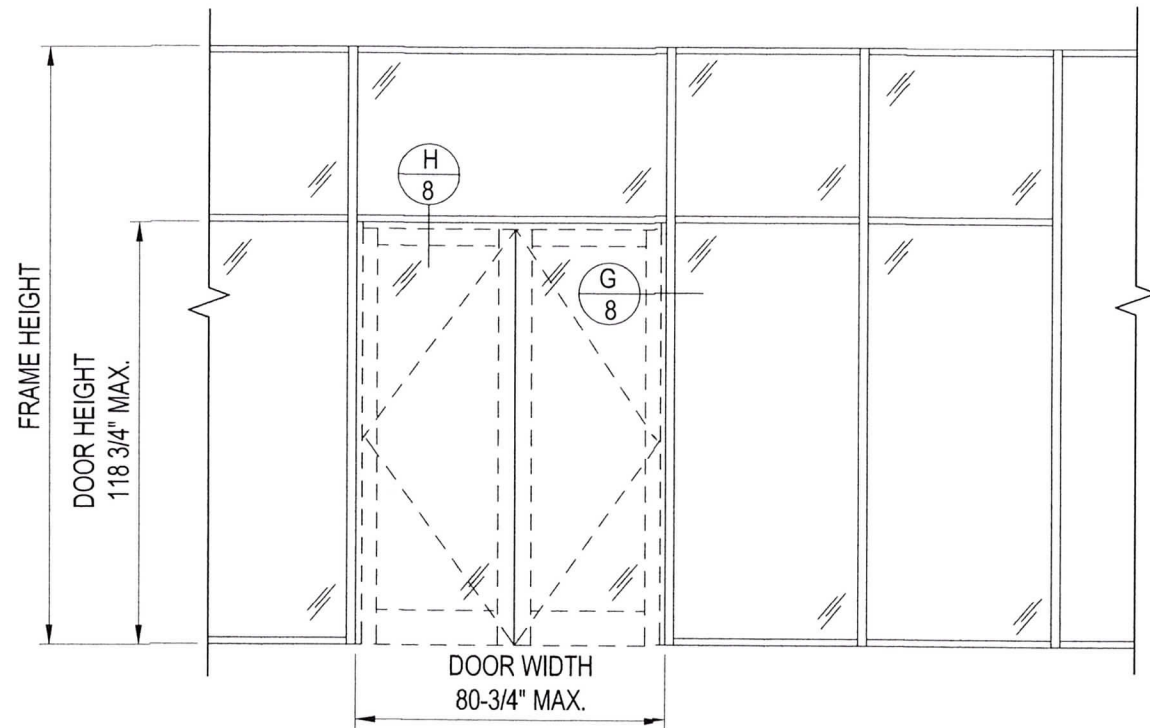
JORGE E. VALDES, P.E.
FLORIDA REGISTRATION No. 67398
C.A.N. 28565
No. 67398
SEP 09 2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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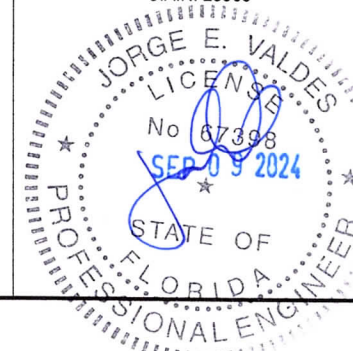
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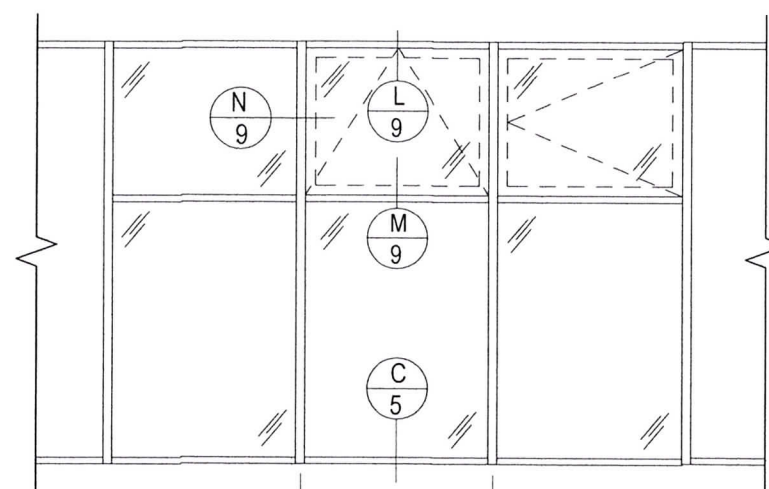
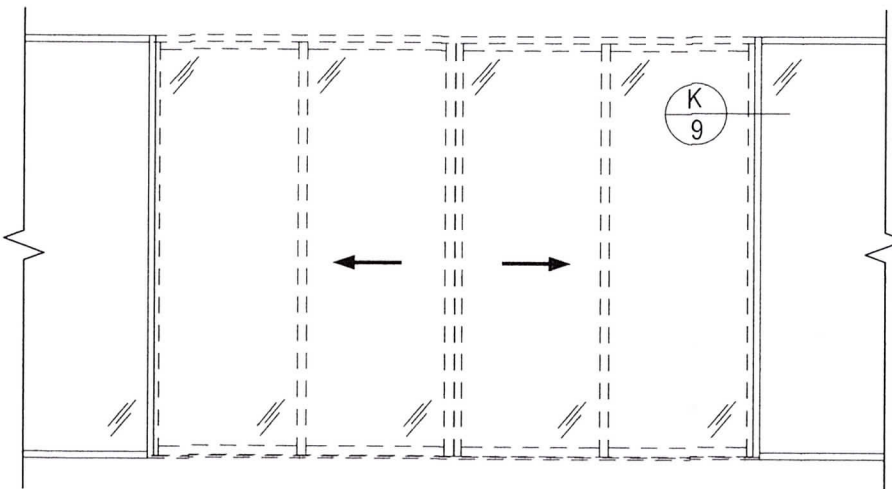
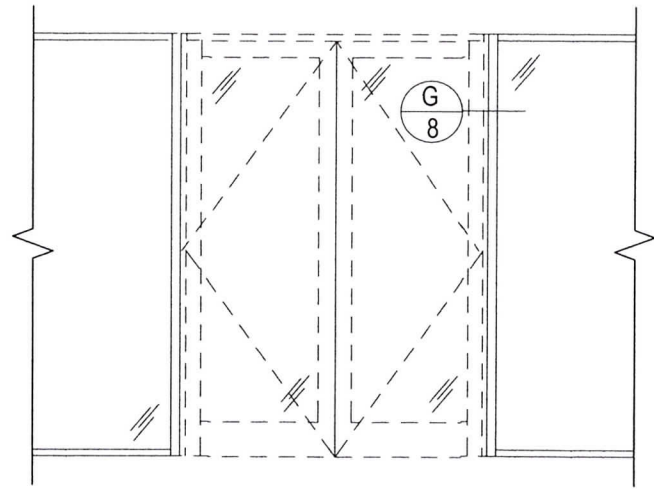


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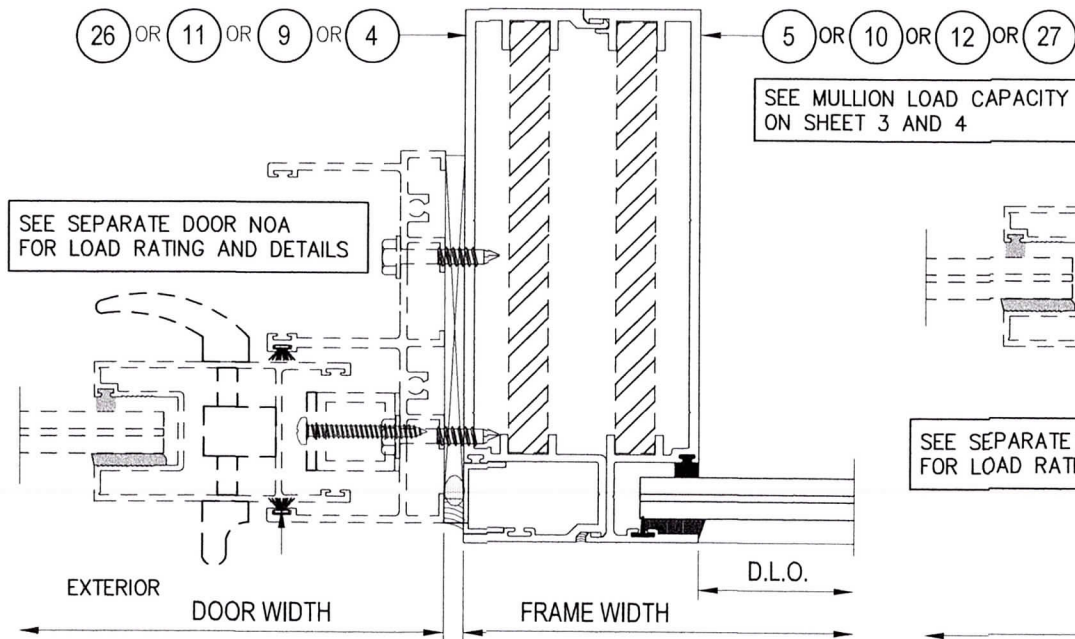
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SHEET 8 OF 11

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MAX.
FRAME WIDTH
(SEE SHEET 3)

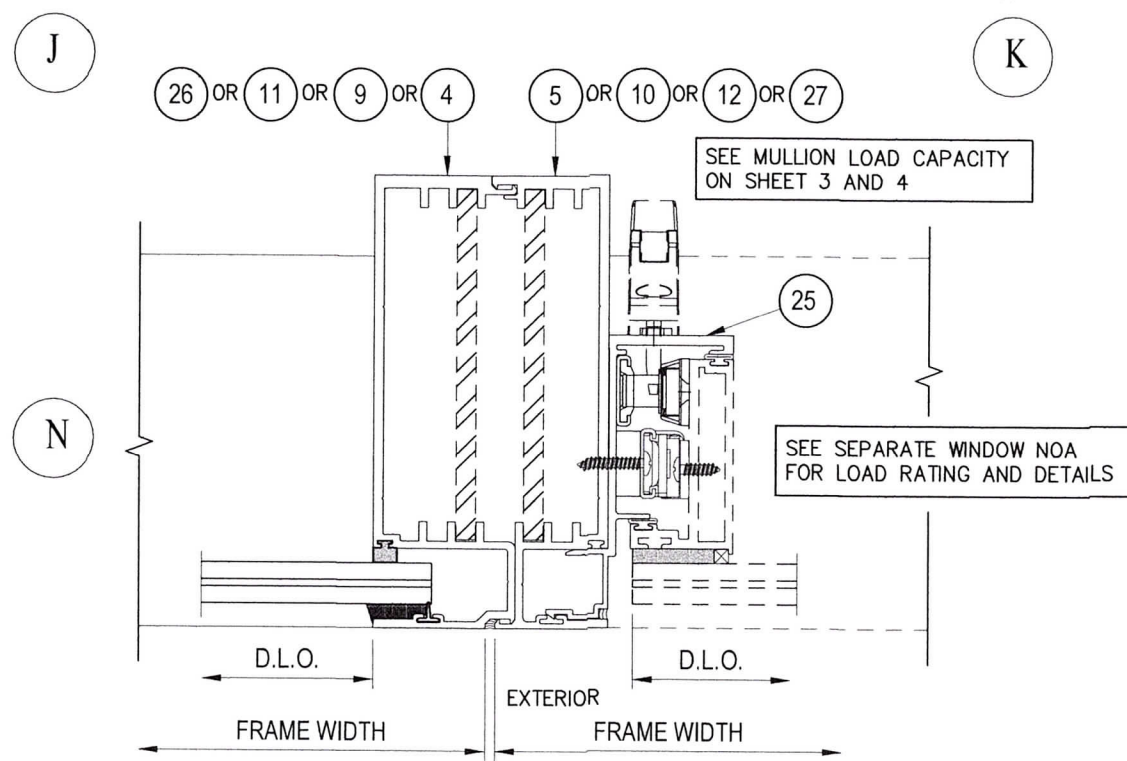


SEE MULLION LOAD CAPACITY
ON SHEET 3 AND 4

SEE MULLION LOAD CAPACITY
ON SHEET 3 AND 4

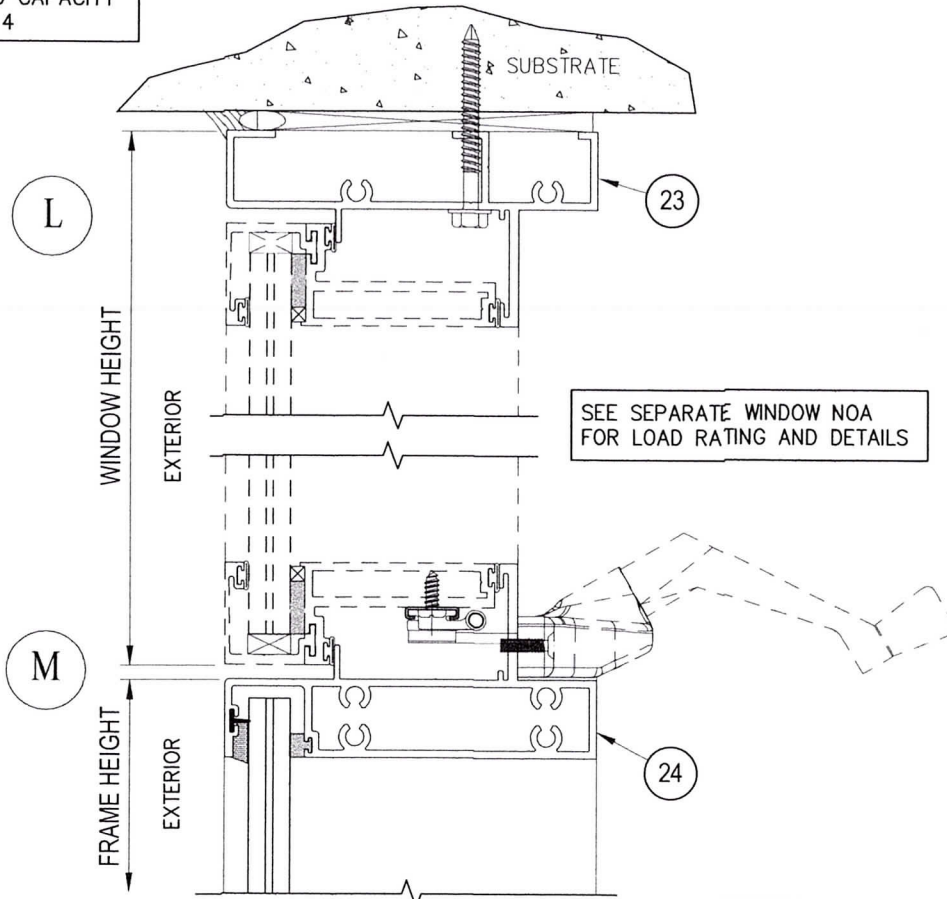
SEE SEPARATE DOOR NOA
FOR LOAD RATING AND DETAILS

SEE SEPARATE WINDOW NOA
FOR LOAD RATING AND DETAILS



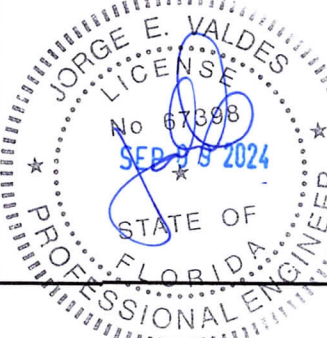
SEE MULLION LOAD CAPACITY
ON SHEET 3 AND 4

SEE SEPARATE WINDOW NOA
FOR LOAD RATING AND DETAILS

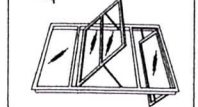


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Miami-Dade Product Control

JORGE E. VALDES, P.E.
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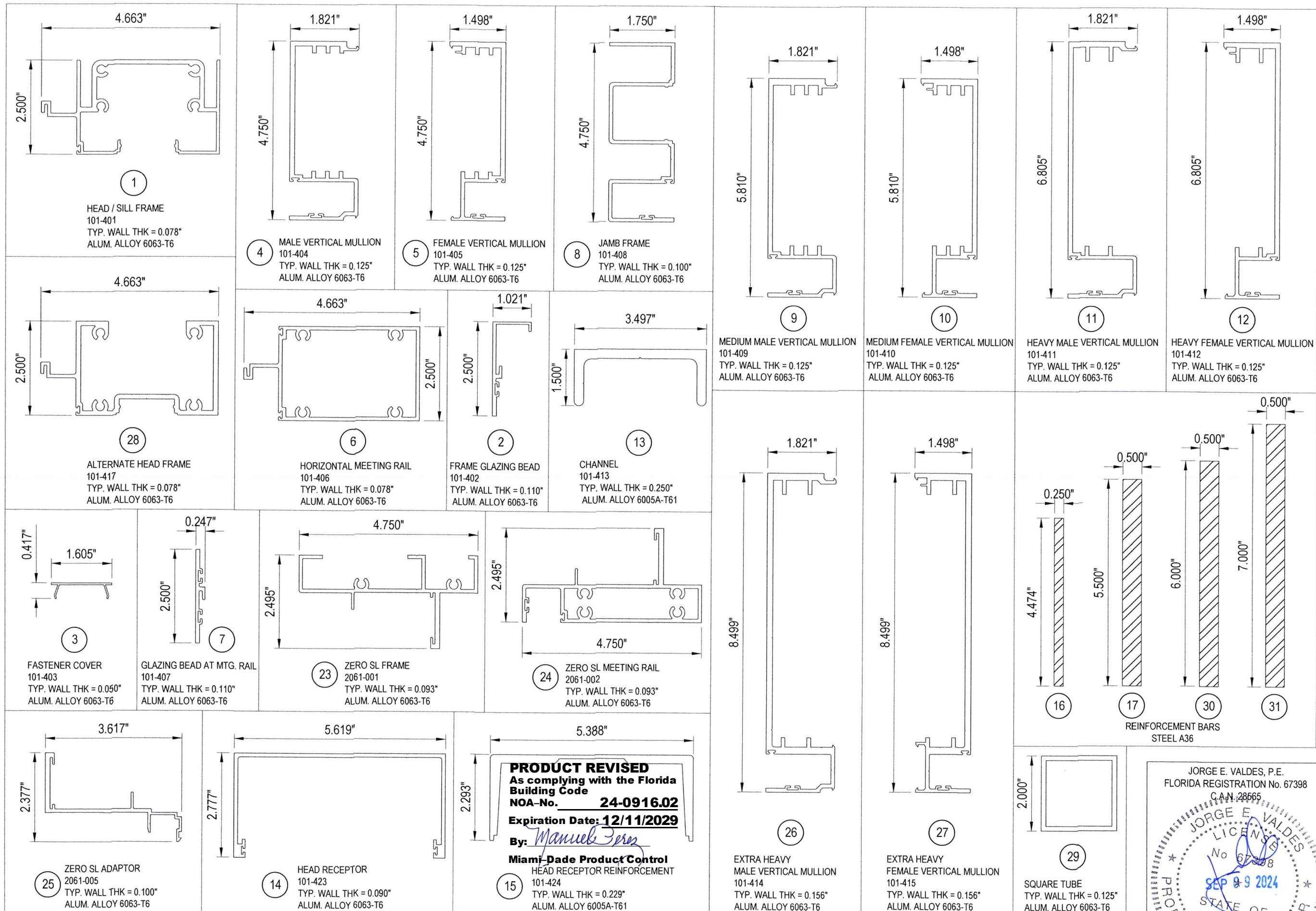
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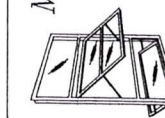
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SHEET 9 OF 11



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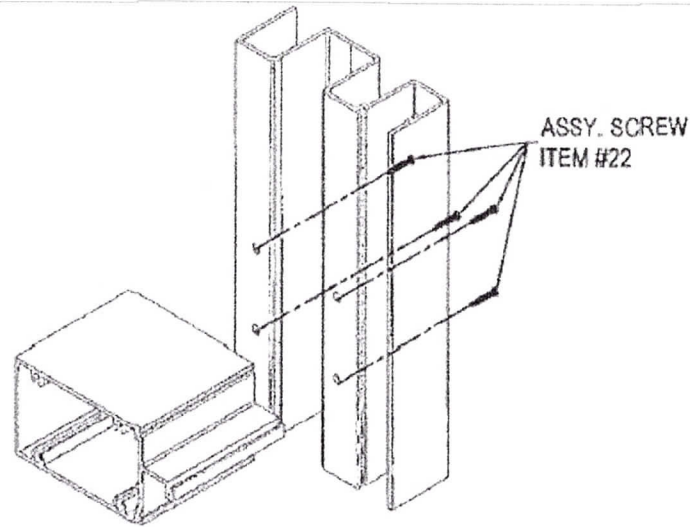
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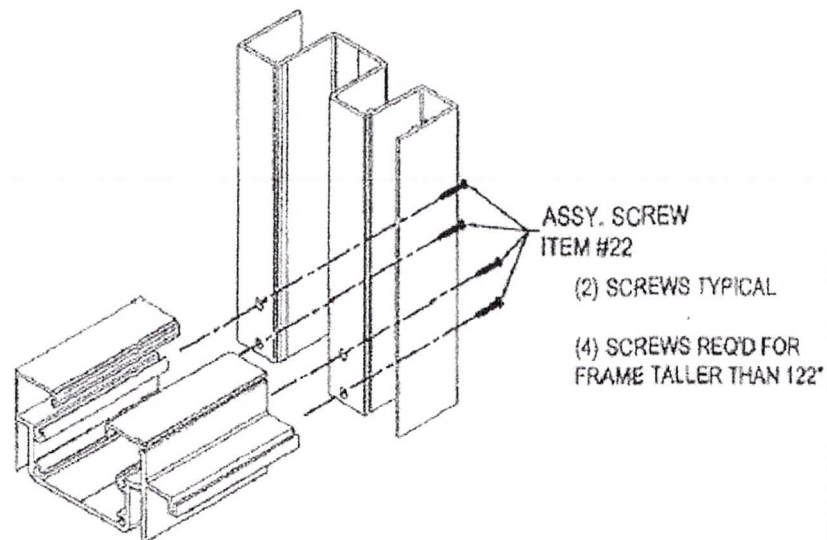
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SHEET 10 OF 11

JORGE E. VALDES, P.E.
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MEETING RAIL ASSEMBLY DETAIL

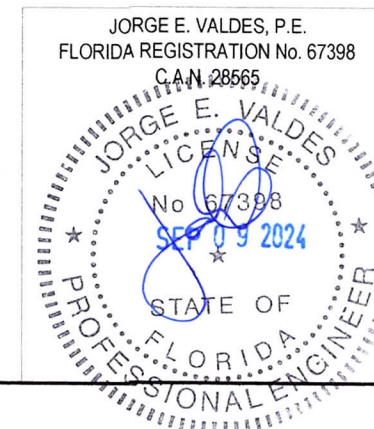


FRAME CORNER ASSEMBLY DETAIL

BILL OF MATERIALS

ITEM	PART No.	DESCRIPTION	REMARKS
1	101-401	FRAME HEAD / SILL	FRAME
2	101-402	FRAME GLAZING BEAD	FRAME
3	101-403	FASTENER COVER	FRAME
4	101-404	MALE VERTICAL MULLION	-
5	101-405	FEMALE VERTICAL MULLION	-
6	101-406	HORIZONTAL MEETING RAIL	FRAME
7	101-407	GLAZING BEAD FOR MEETING RAIL	FRAME
8	101-408	FRAME JAMB	FRAME
9	101-409	MEDIUM MALE VERTICAL MULLION	FRAME
10	101-410	MEDIUM FEMALE VERTICAL MULLION	FRAME
11	101-411	HEAVY MALE VERTICAL MULLION	FRAME
12	101-412	HEAVY FEMALE VERTICAL MULLION	FRAME
13	101-413	CHANNEL (MILL FINISH)	AT FRAME HEAD (SEE ELEV. FOR LOCATION)
14	101-423	HEAD RECEPTOR	AT FRAME HEAD
15	101-424	HEAD RECEPTOR REINFORCEMENT	-
16	-	1/2" x 4 1/2" REINFORCEMENT BAR	-
17	-	1/2" x 5 1/2" REINFORCEMENT BAR	-
18	G-101-01	SPACER	FOR 9/16" LAMINATED GLASS
19	SILICONE	TREMCO PROGLAZE®, DOWSIL® 983, DOWSIL® 795	AT EXTERIOR PERIMETER GLAZING
20	G-101-02	BACKER FLAP	(SEE GLAZING DETAILS)
21	-	1/4" x 1/2" x 4" LONG SETTING BLOCK	-
22	-	#14 x 1 1/2" HH. SMS.	-
23	2061-001	ZERO S.L. FRAME	-
24	206-002	ZERO S.L. MEETING RAIL	-
25	2061-005	ZERO S.L. ADAPTOR	-
26	101-414	EXTRA HEAVY MALE VERTICAL MULLION	FRAME
27	101-415	EXTRA HEAVY FEMALE VERTICAL MULLION	FRAME
28	101-417	ALTERNATE FRAME HEAD	FRAME
29	-	2" x 2" SQUARE TUBE (MILL FINISH)	AT ALTERNATE FRAME HEAD
30	-	1/2" x 6" REINFORCEMENT BAR	-
31	-	1/2" x 7" REINFORCEMENT BAR	-
32	-	3/8"-16 x 1" LG. HH. SS. MS.	AT MULLION "M10", SECURING STEEL BARS

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