MIAMI-DADE COUNTY

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

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
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

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 **#3** dated 04/06/22, 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 NOA No. 21-0318.14** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

8/11/22

Miami Wall Systems, Inc.

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 Alum. Window Wall System (S.M.I.)", sheets 1 through 9 of 9, dated 10/21/14, with revision **#2** dated 03/05/19, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.
(Submitted under NOA No. 21-0318.14)

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 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, and updated on 10/25/19 to comply with **FBC 6th Edition (2017)**, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.
(Submitted under NOA No. 19-1029.02)

2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.

2. Notice of Acceptance No. **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.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 22-0613.02
Expiration Date: December 11, 2024
Approval Date: August 18, 2022

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS

1. Statement letters of conformance, complying with **FBC 7th Edition (2020)**, dated March 5, 2021, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E. ***(Submitted under NOA No. 21-0318.14)***

2. 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. **19-1029.02**, issued to Miami Wall Systems, Inc. for their Series "101" Aluminum Window Wall System – S.M.I., approved on 12/05/19 and expiring on 12/11/24.

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 **#3** dated 04/06/22, prepared by manufacturer, signed and sealed by Jorge E. Valdes, 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 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.

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.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 22-0613.02
Expiration Date: December 11, 2024
Approval Date: August 18, 2022

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (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

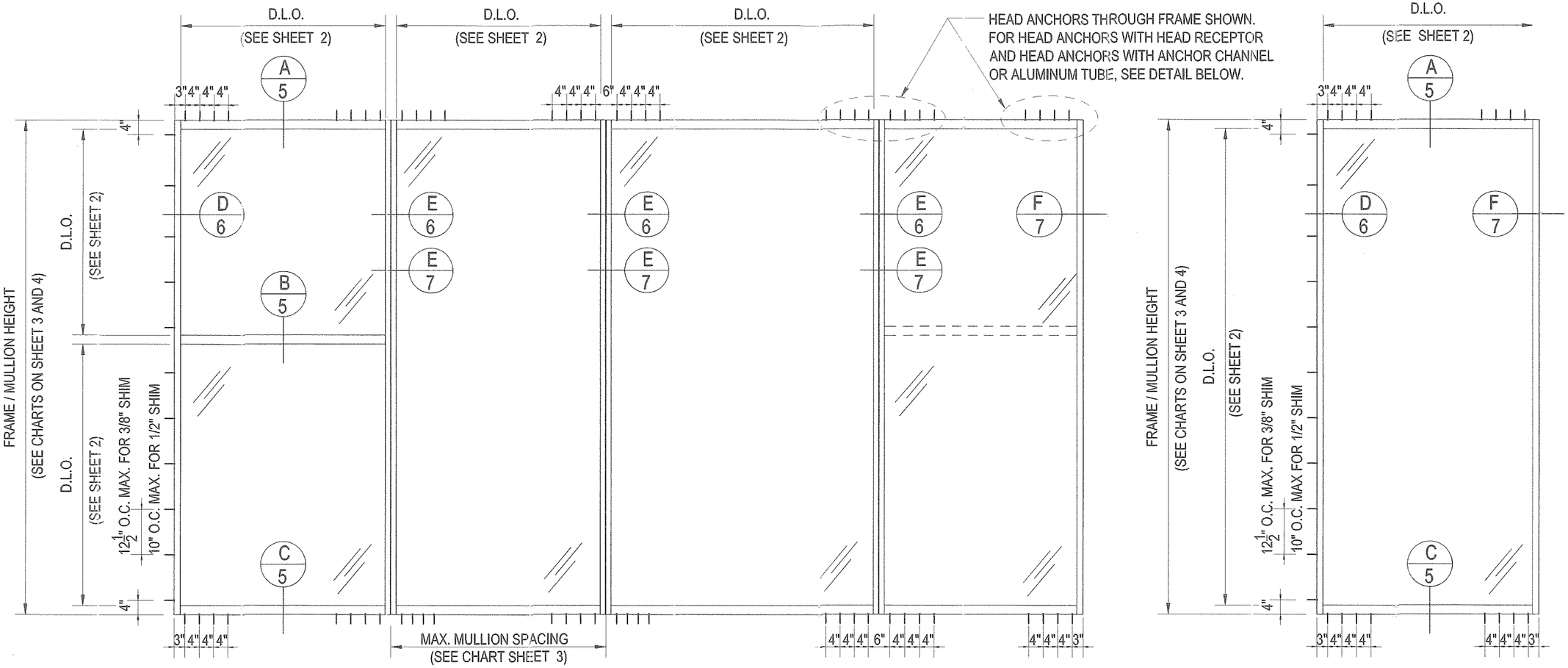
1. Statement letters of conformance, complying with **FBC 7th Edition (2020)**, dated May 24, 2022, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.

2. Statement letters of no financial interest, dated May 24, 2022, prepared by manufacturer, signed and sealed by Jorge E. Valdes, P.E.

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 Perez, P.E.
Product Control Examiner
NOA No. 22-0613.02
Expiration Date: December 11, 2024
Approval Date: August 18, 2022



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 7TH EDITION (2020) 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 7TH EDITION (2020) FLORIDA BUILDING CODE.

INSTRUCTIONS

USE CHARTS AS FOLLOWS:

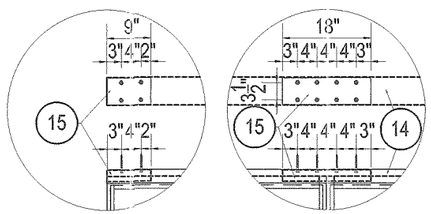
STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE, USING THE APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE CHART ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE .

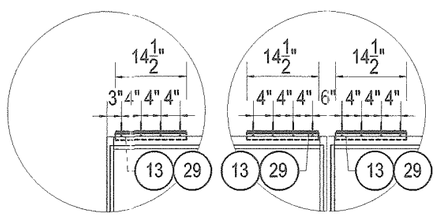
STEP 3: CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 & 4.
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

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.



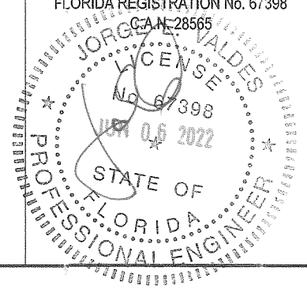
HEAD ANCHOR WITH HEAD RECEPTOR



HEAD ANCHOR WITH ANCHOR CHANNEL
OR
2" x 2" ALUMINUM TUBE

PRODUCT REVISED
as complying with the Florida Building Code
NOA No. 22-0613.02
Expiration Date: 12/11/2024
By: Manuel Perez
Miami-Dade Product Control

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



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

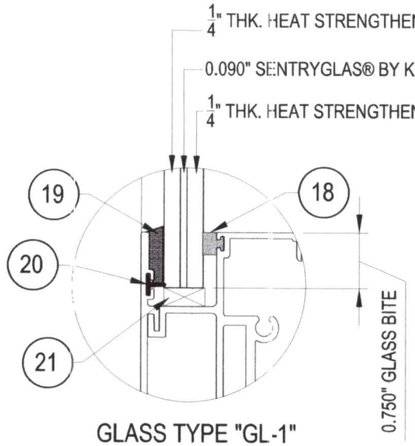
SERIES 101
ALUMINUM WINDOW WALL SYSTEM
(S.M.I.)

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

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

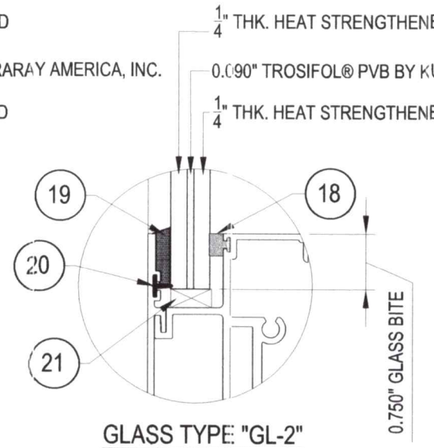
GLASS DESIGN LOAD CAPACITY - PSF					
D.L.O. SHORT SIDE (INCHES)	D.L.O. LONG SIDE (INCHES)	GLASS TYPE "GL-1"	GLASS TYPE "GL-2"	GLASS TYPE "GL-3"	GLASS TYPE "GL-4" "GL-5" "GL-6"
		EXT. (+) INT.(-)	EXT. (+) INT.(-)	EXT. (+) INT.(-)	EXT. (+) INT.(-)
36	96	130.0	130.0	95.0	130.0
42		130.0	130.0	95.0	130.0
48		130.0	130.0	95.0	130.0
54		130.0	130.0	95.0	130.0
60		130.0	130.0	95.0	130.0
66		130.0	130.0	95.0	130.0
72		121.0	121.0	95.0	121.0
36	102	130.0	130.0	95.0	130.0
42		130.0	130.0	95.0	130.0
48		130.0	130.0	95.0	130.0
54		130.0	130.0	95.0	130.0
60		130.0	130.0	95.0	130.0
66		119.0	119.0	95.0	119.0
72		110.0	110.0	95.0	110.0
36	108	130.0	130.0	95.0	130.0
42		130.0	130.0	95.0	130.0
48		130.0	130.0	95.0	130.0
54		130.0	130.0	95.0	130.0
60		121.0	121.0	95.0	121.0
66		112.0	112.0	95.0	112.0
72		104.0	104.0	95.0	104.0
36	114	130.0	130.0	95.0	130.0
42		130.0	130.0	95.0	130.0
48		130.0	130.0	95.0	130.0
54		130.0	130.0	95.0	130.0
60		119.0	119.0	95.0	119.0
66		106.0	106.0	95.0	106.0
72		100.0	100.0	95.0	100.0
36	120	130.0	130.0	95.0	130.0
42		130.0	130.0	95.0	130.0
48		130.0	130.0	95.0	130.0
54		130.0	130.0	95.0	130.0
60		113.0	113.0	95.0	113.0
66		100.0	100.0	95.0	100.0
36	126	130.0	130.0	95.0	-
42		130.0	130.0	95.0	-
48		130.0	130.0	95.0	-
54		125.0	125.0	95.0	-
60		107.0	107.0	95.0	-
66		98.0	98.0	95.0	-
36	132	130.0	130.0	95.0	-
42		130.0	130.0	95.0	-
48		130.0	130.0	95.0	-
54		121.0	121.0	95.0	-
60		104.0	104.0	95.0	-
36	138	130.0	130.0	95.0	-
42		130.0	130.0	95.0	-
48		130.0	130.0	95.0	-
54		121.0	121.0	95.0	-
57		114.0	114.0	95.0	-

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



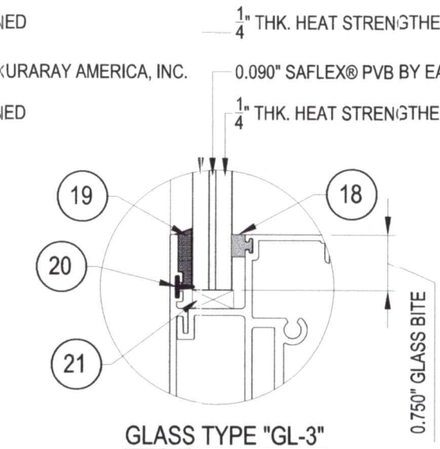
GLASS TYPE "GL-1"

(TYPICAL DETAIL AT HORIZONTAL MEMBERS)



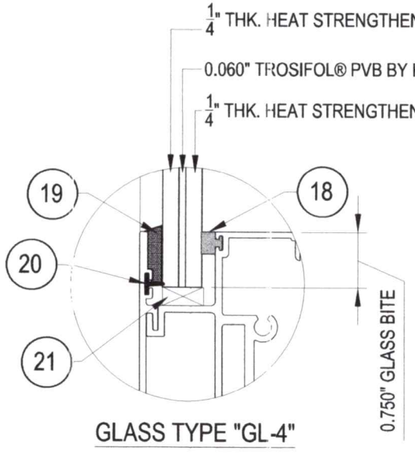
GLASS TYPE "GL-2"

(TYPICAL DETAIL AT HORIZONTAL MEMBERS)



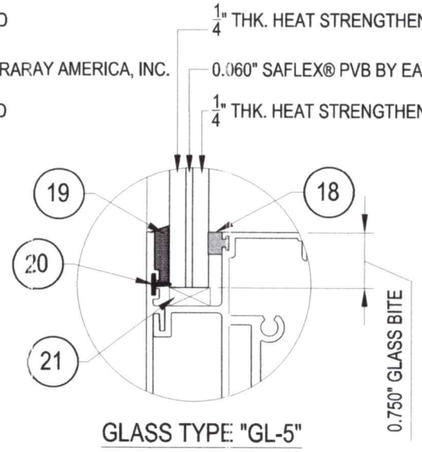
GLASS TYPE "GL-3"

(TYPICAL DETAIL AT HORIZONTAL MEMBERS)



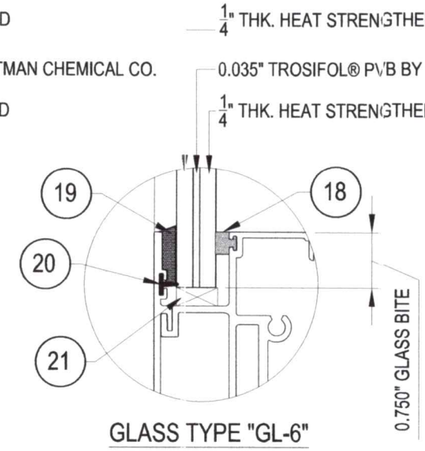
GLASS TYPE "GL-4"

(TYPICAL DETAIL AT HORIZONTAL MEMBERS)



GLASS TYPE "GL-5"

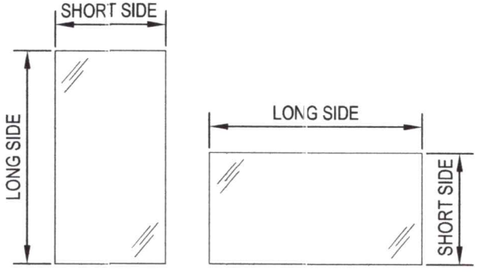
(TYPICAL DETAIL AT HORIZONTAL MEMBERS)

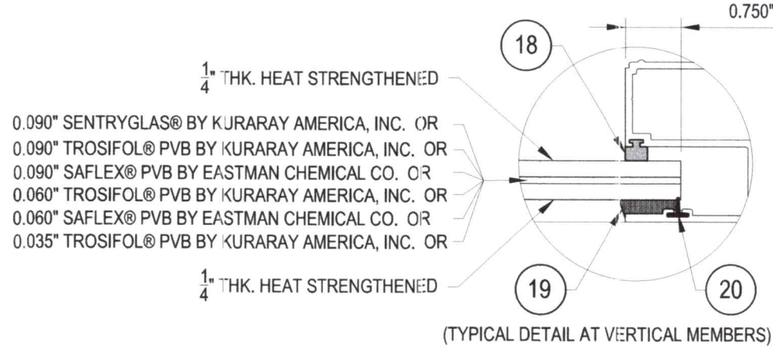


GLASS TYPE "GL-6"

(TYPICAL DETAIL AT HORIZONTAL MEMBERS)

NOTE:
LONG AND SHORT SIDES CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.





(TYPICAL DETAIL AT VERTICAL MEMBERS)

GLAZING OPTIONS
SCALE 1:2

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.)

PRODUCT REVISED
as complying with the Florida Building Code
NOA No. 22-0613.02
Expiration Date: 12/11/2024
By: Manuel Perez
Miami-Dade Product Control

JORGE E. VALDES, P.E.
FLORIDA REGISTRATION No. 67398
C.A.N. 28665
JORGE E. VALDES LICENSE No 67398 JUN 06 2022 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

DATE: 10/21/2014
SCALE: AS NOTED
DWG. BY: RP
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 2 OF 11

CHART "A"

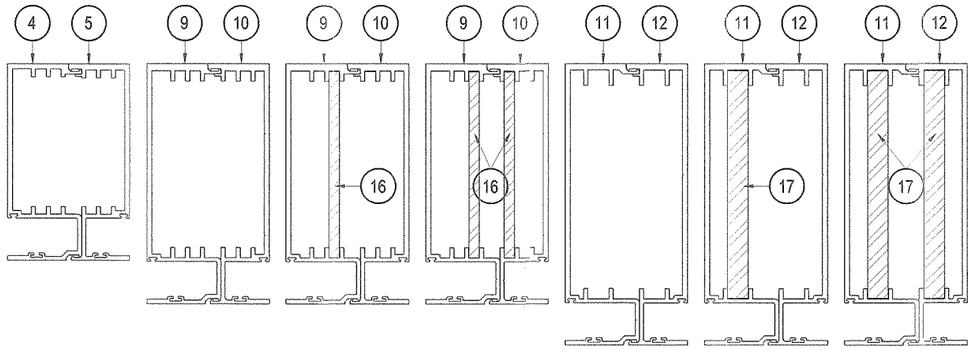
MULLION DESIGN LOAD CAPACITY - PSF														
NOMINAL DIMENSIONS (INCHES)		MULLION TYPE								ANCHOR TYPE				
		"M1"		"M2"		"M3"		"M4"		"A"	"B"	"A1"	"B1"	
WIDTH (W)	FRAME HEIGHT	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	
30	72	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	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	95.0	110.0	110.0	130.0	130.0	89.7	89.3	130.0	120.8	
54		-	-	95.0	95.0	110.0	110.0	130.0	130.0	79.7	79.3	130.0	107.4	
60		-	-	95.0	95.0	110.0	110.0	130.0	130.0	71.7	71.4	130.0	96.7	
30	122	-	-	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	111.7	111.2	130.0	130.0	
42		-	-	95.0	95.0	110.0	110.0	130.0	130.0	95.8	95.3	130.0	129.0	
48		-	-	95.0	95.0	110.0	110.0	130.0	130.0	83.8	83.4	130.0	112.9	

CHART "B"

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		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	120	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		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	126	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		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	130.0	83.5	130.0	130.0	
30	138	80.0	80.0	130.0	130.0	-	-	118.5	118.0	130.0	130.0	130.0	130.0	
36		80.0	80.0	130.0	130.0	-	-	98.8	98.3	130.0	130.0	130.0	130.0	
42		80.0	80.0	130.0	130.0	-	-	84.7	84.3	130.0	114.1	130.0	130.0	
48		80.0	80.0	130.0	130.0	-	-	74.1	73.7	130.0	99.8	130.0	130.0	
54		-	-	130.0	130.0	-	-	65.9	65.5	130.0	88.7	130.0	130.0	
60		-	-	130.0	130.0	-	-	59.3	59.0	130.0	79.9	130.0	130.0	
30	144	80.0	80.0	130.0	130.0	-	-	113.6	113.1	130.0	130.0	130.0	130.0	
36		80.0	80.0	130.0	130.0	-	-	94.7	94.2	130.0	127.6	130.0	130.0	
42		80.0	80.0	130.0	130.0	-	-	81.1	80.8	130.0	109.3	130.0	130.0	
48		80.0	80.0	130.0	130.0	-	-	71.0	70.7	130.0	95.7	130.0	130.0	
54		-	-	130.0	130.0	-	-	63.1	62.8	130.0	85.0	130.0	130.0	
60		-	-	130.0	130.0	-	-	56.8	56.5	125.6	76.5	130.0	130.0	

CHART "C"

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"
Ix = 6.960 in⁴
Sx = 2.800 in³

MULLION "M2"
SEE CHART "A"
Ix = 12.585 in⁴
Sx = 4.111 in³

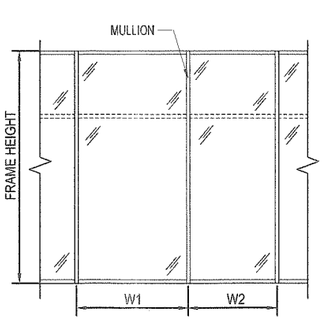
MULLION "M3"
SEE CHART "A"
ALUM: Ixa = 12.585 in⁴, Sxa = 4.111 in³
STEEL: Ixs = 1.866 in⁴, Sxs = 0.834 in³
TOTAL: Ix = 17.996 in⁴

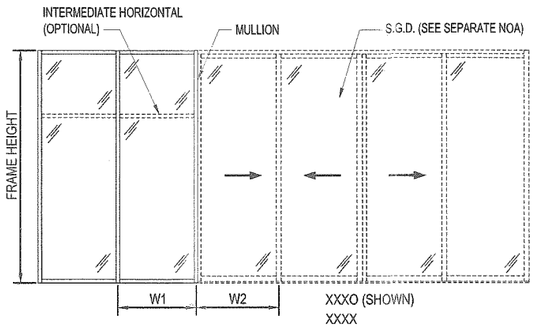
MULLION "M4"
SEE CHART "A"
ALUM: Ixa = 12.585 in⁴, Sxa = 4.111 in³
STEEL: Ixs = 3.731 in⁴, Sxs = 1.668 in³
TOTAL: Ix = 23.406 in⁴

MULLION "M5"
SEE CHART "B"
Ix = 17.864 in⁴
Sx = 5.056 in³

MULLION "M6"
SEE CHART "B"
ALUM: Ixa = 17.864 in⁴, Sxa = 5.056 in³
STEEL: Ixs = 6.932 in⁴, Sxs = 2.521 in³
TOTAL: Ix = 37.968 in⁴

MULLION "M7"
SEE CHART "C"
ALUM: Ixa = 17.864 in⁴, Sxa = 5.056 in³
STEEL: Ixs = 13.865 in⁴, Sxs = 5.042 in³
TOTAL: Ix = 58.071 in⁴





MULLION TRIBUTARY WIDTH (W)

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA No. 22-0613.02
Expiration Date: 12/11/2024
By: Manuel Perez
Miami-Dade Product Control

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

JORGE E. VALDES LICENSE No. 67398 JUN 06 2022 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
2	03/05/21	UPDATE TO 2020 FBC
3	04/06/22	NOA REVISION

DATE: 10/21/2014
SCALE: AS NOTED
DWG. BY: RP
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 3 OF 11

CHART "D"

MULLION DESIGN LOAD CAPACITY - PSF

NOMINAL DIMENSIONS (INCHES)		MULLION TYPE													ANCHOR TYPE			
		"M8"					"M9"					"M10"			"A1"	"B1"	"A2"	"B2"
WIDTH (W)	FRAME HEIGHT	REINFORCEMENT LENGTH (INCHES)					REINFORCEMENT LENGTH (INCHES)					REINFORCEMENT LENGTH (INCHES)						
		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(-)	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	75.7	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	65.6	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	56.2	80.0	80.0
76		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	51.8	80.0	80.0
84		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.9	46.9	80.0	80.0
42	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	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	71.8	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	61.5	80.0	80.0
68		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	50.6	80.0	80.0
84		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	67.3	41.0	80.0	80.0
36	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	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	77.2	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	67.5	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	55.9	80.0	80.0
66		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	49.1	80.0	80.0
78		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	68.2	41.6	80.0	80.0
36	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	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	72.9	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	63.8	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	80.0	56.7	80.0	80.0
66		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.1	46.4	80.0	80.0
74		-	-	-	-	-	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	67.9	41.4	80.0	80.0
36	222	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	70.9	80.0	80.0
52		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	57.3	80.0	80.0
60		-	-	-	-	-	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	49.6	80.0	80.0
66		-	-	-	-	-	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	74.1	45.1	80.0	80.0
72		-	-	-	-	-	69.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	67.9	41.4	80.0	80.0
36	228	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	69.1	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	63.0	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	58.0	80.0	80.0
64		-	-	-	-	-	70.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	74.4	45.3	80.0	80.0
70		-	-	-	-	-	64.0	72.0	80.0	80.0	80.0	77.0	80.0	80.0	68.0	41.4	80.0	80.0
36	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	78.5	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	67.3	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	58.9	80.0	80.0
54		-	-	-	-	-	75.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	52.3	80.0	80.0
60		-	-	-	-	-	67.0	76.0	80.0	80.0	80.0	80.0	80.0	80.0	77.3	47.1	80.0	80.0
68		-	-	-	-	-	59.0	68.0	74.0	78.0	80.0	71.0	80.0	80.0	68.2	41.6	80.0	80.0
36	240	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	76.5	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	65.6	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	57.4	80.0	80.0
54		-	-	-	-	-	68.0	77.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	51.0	80.0	80.0
60		-	-	-	-	-	60.0	69.0	75.0	80.0	80.0	72.0	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	68.5	41.7	80.0	80.0
36	246	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	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	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	56.0	80.0	80.0
54		-	-	-	-	-	63.0	75.0	78.0	80.0	80.0 *	73.0	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	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	66.8	40.7	80.0	80.0

(*) REINFORCEMENT LENGTH IS LIMITED TO 240"

NOTES:

1.- ALL STEEL REINFORCEMENT ON THIS CHART TO BE CENTERED AT MULL MID SPAN

2.- 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

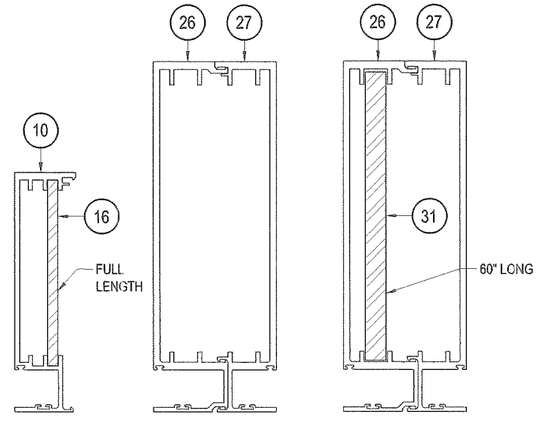
3.- REINFORCEMENT LENGTH AT "J2" TO BE FULL MULL LENGTH

4.- REINFORCEMENT LENGTH AT "J3" TO BE A MINIMUM OF 60"

CHART "E"

FREE STANDING JAMB DESIGN LOAD CAPACITY - PSF

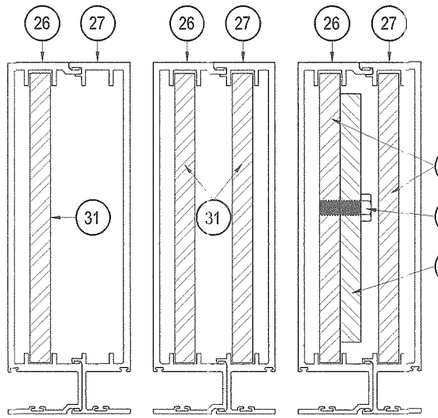
NOMINAL DIMENSIONS (INCHES)		JAMB TYPE			SILICONE GAP (INCHES)	
		"J1"	"J2"	"J3"		
WIDTH (W)	FRAME HEIGHT	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)	MIN.	MAX.
24	122	130	80.0	80.0	3/8	1
30		130	80.0	80.0		
42		-	80.0	80.0		
24	168	-	80.0	80.0	5/8	1 1/8
30		-	80.0	80.0		
35		-	80.0	80.0		
22	192	-	80.0	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		



JAMB "J1"
SEE CHART "E"
ALUM: Ixa = 12.581 in⁴
STEEL: Ixs = 3.790 in⁴
TOTAL: Ix = 23.572 in⁴

JAMB "J2"
SEE CHART "E"
Ix = 37.129 in⁴

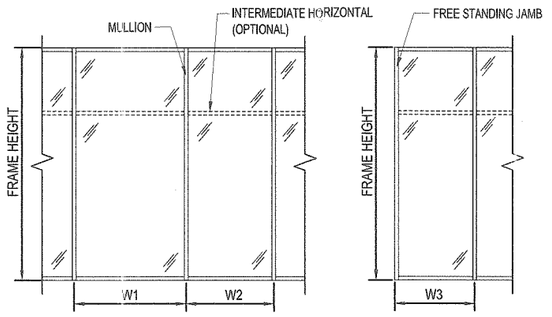
JAMB "J3"
SEE CHART "E"
ALUM: Ixa = 37.129 in⁴
STEEL: Ixs = 14.29 in⁴
TOTAL: Ix = 78.570 in⁴



MULLION "M8"
SEE CHART "D"
ALUM: Ixa = 37.129 in⁴
STEEL: Ixs = 14.29 in⁴
TOTAL: Ix = 78.570 in⁴

MULLION "M9"
SEE CHART "D"
ALUM: Ixa = 37.129 in⁴
STEEL: Ixs = 28.58 in⁴
TOTAL: Ix = 120.011 in⁴

MULLION "M10"
SEE CHART "D"
ALUM: Ixa = 37.129 in⁴
STEEL: Ixs = 37.58 in⁴
TOTAL: Ix = 145.111 in⁴



MULLION
TRIBUTARY WIDTH (W)

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

FREE STANDING JAMB
TRIBUTARY WIDTH (W)

$$\text{WIDTH (W)} = \frac{W3}{2}$$

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Miami-Dade Product Control

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C.A.N. 28565

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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.)

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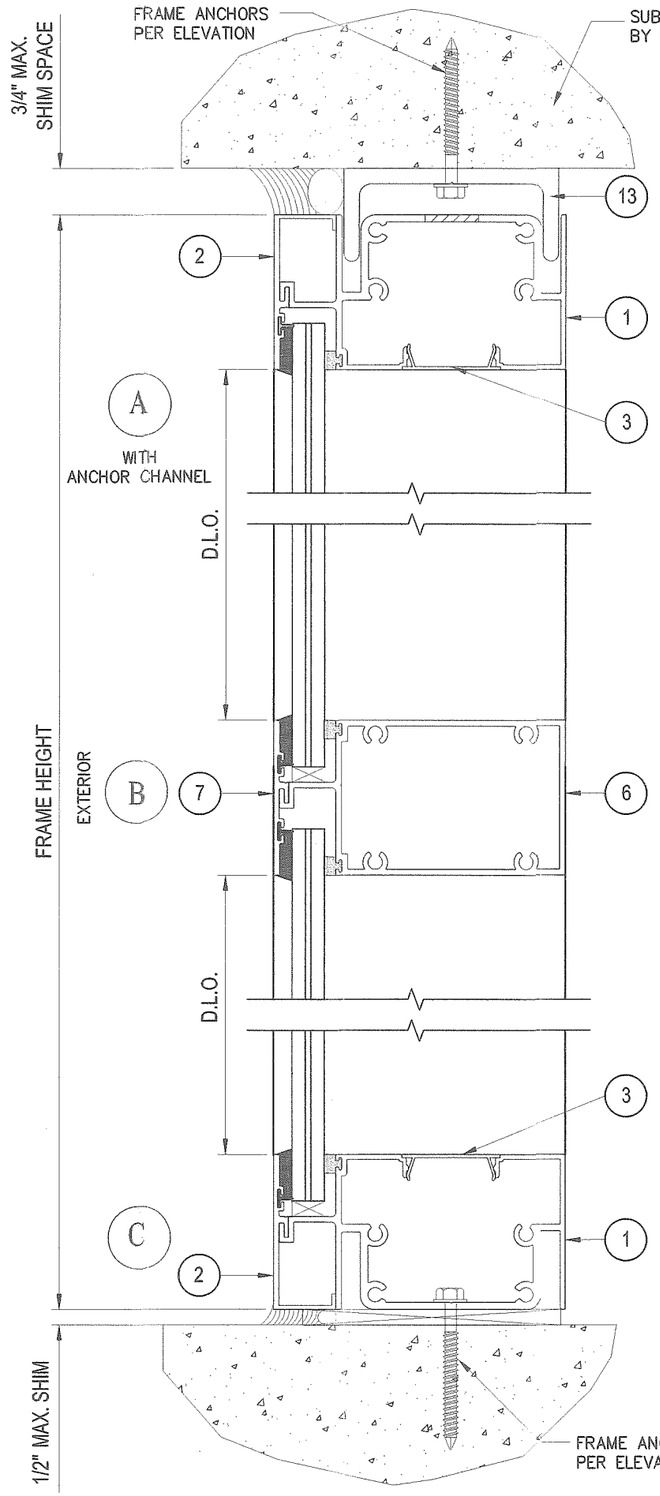
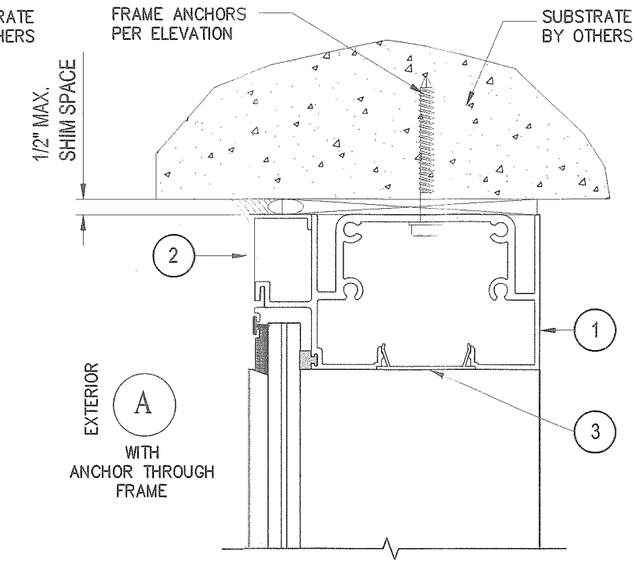
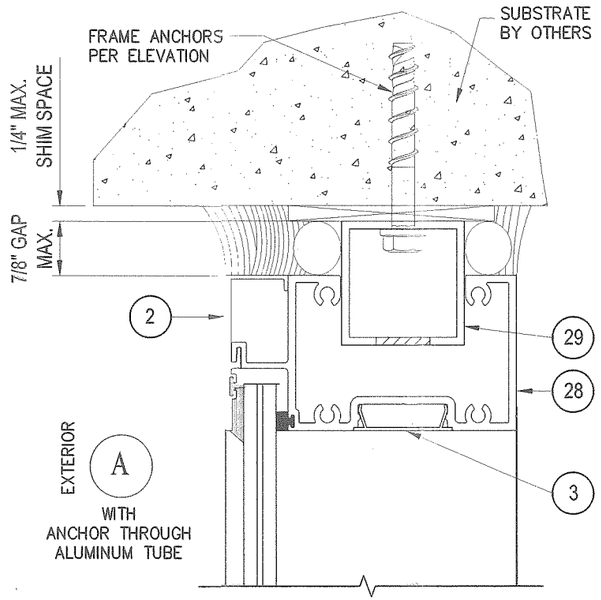
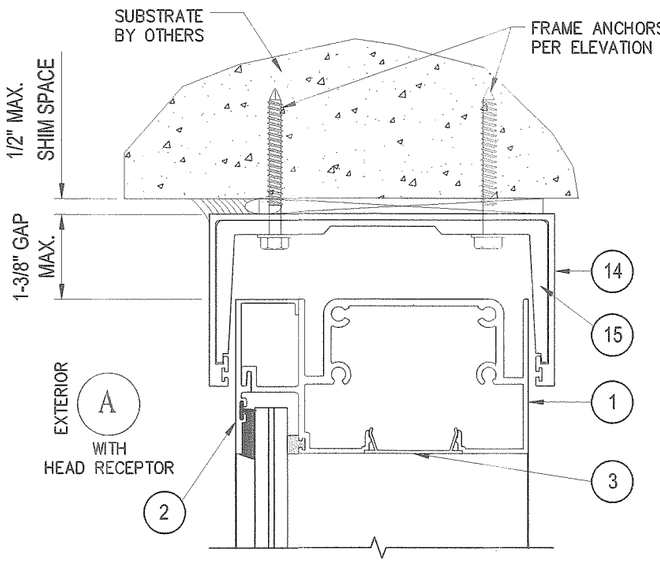
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 4 OF 11









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.

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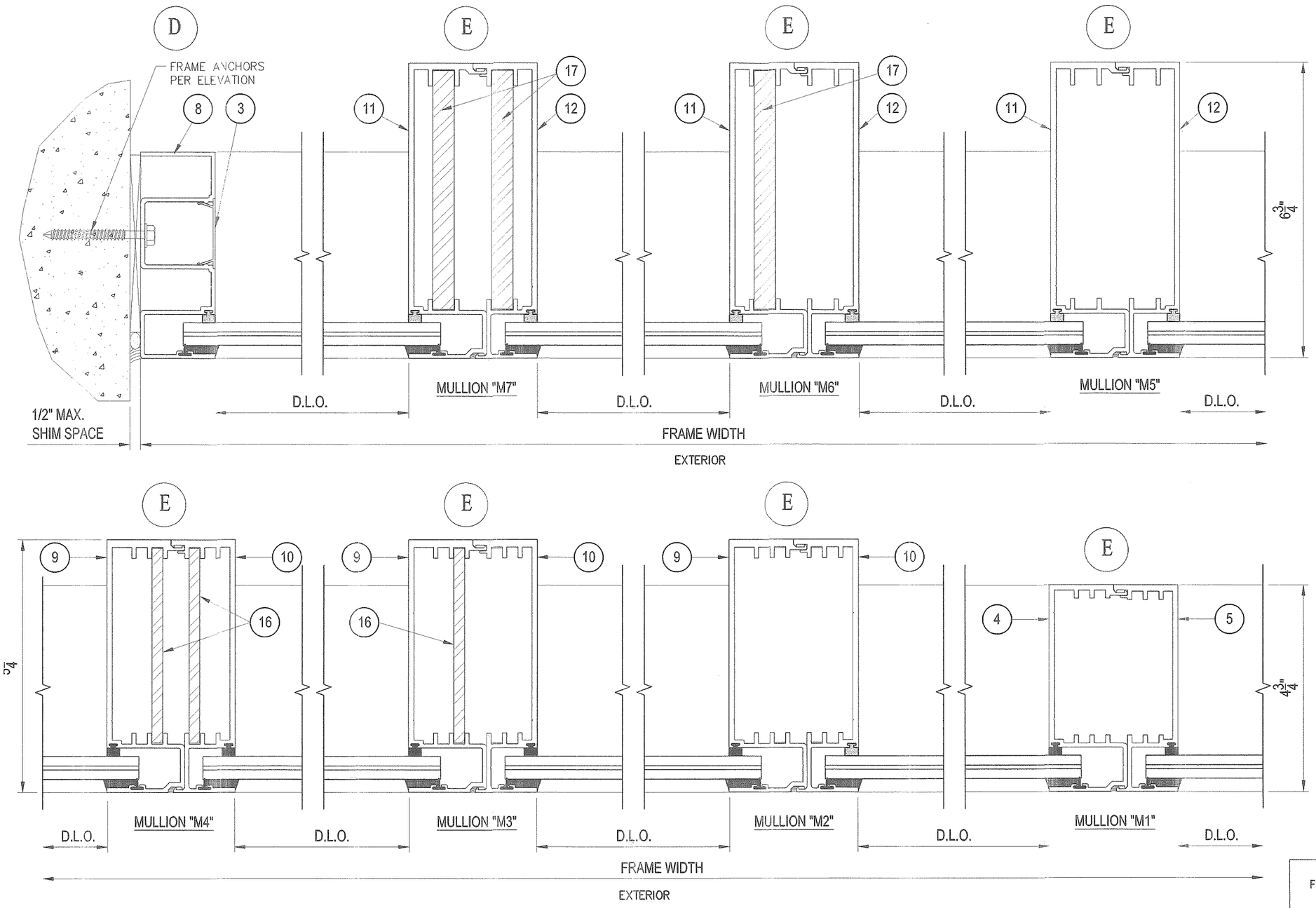
DWG. NO.: 101-SMI
SHEET 5 OF 11



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

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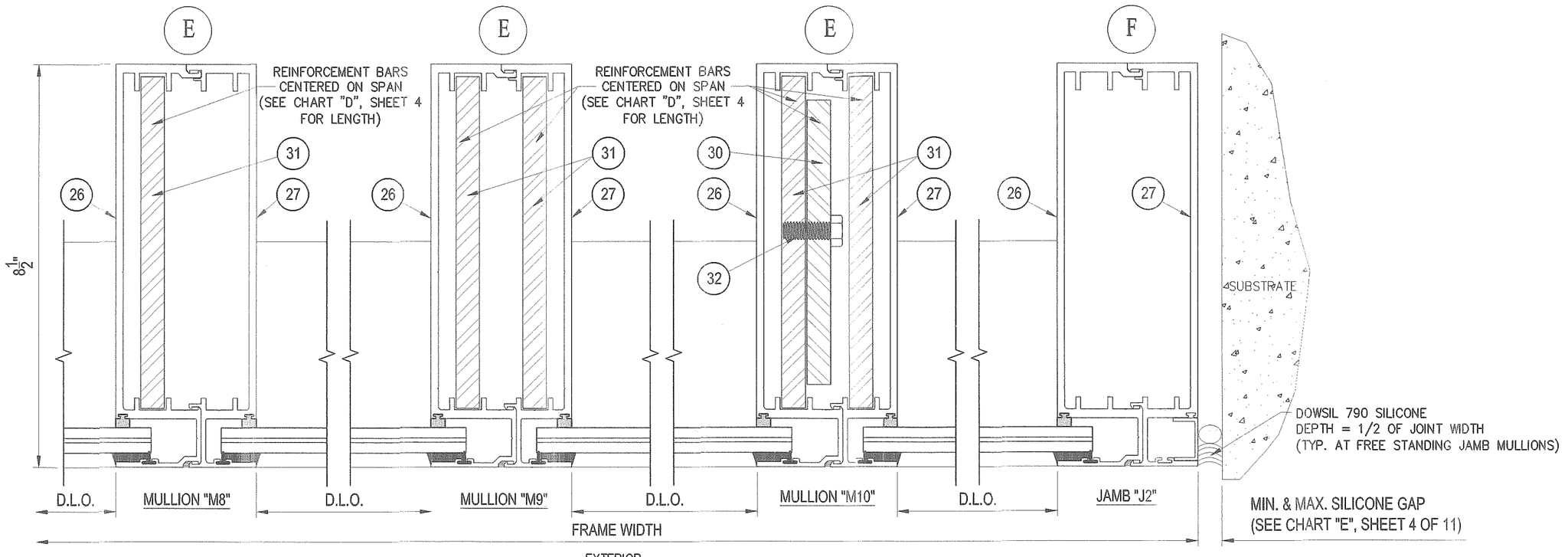
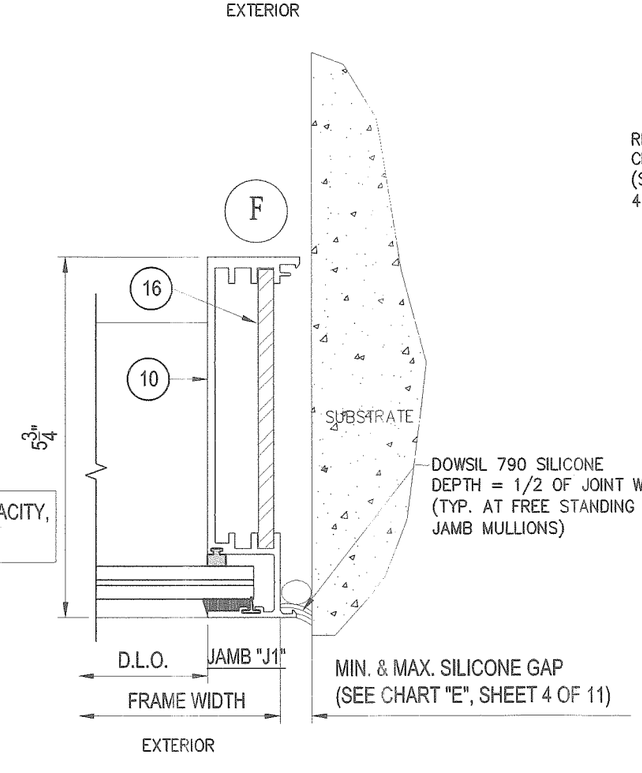
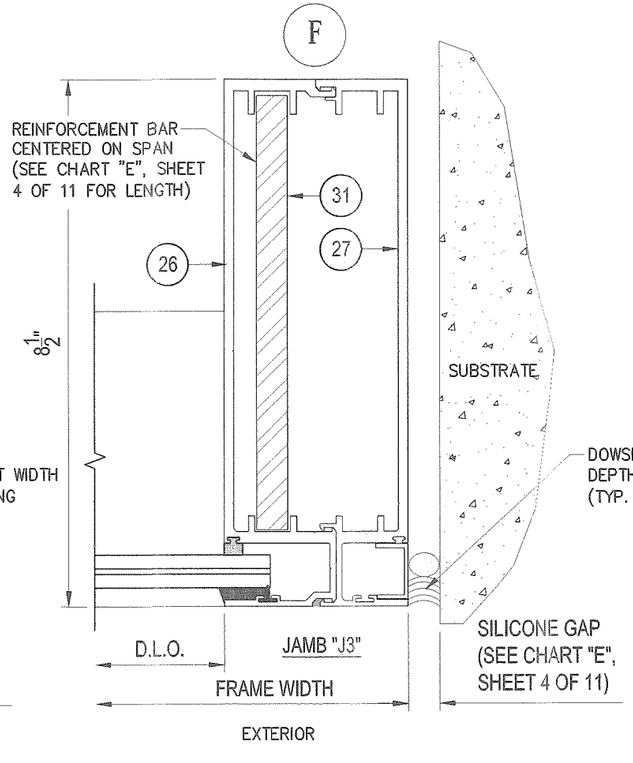


MULLION PROPERTIES AND DESIGN LOAD CAPACITY, SEE CHART "D", SHEET 4 OF 11

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





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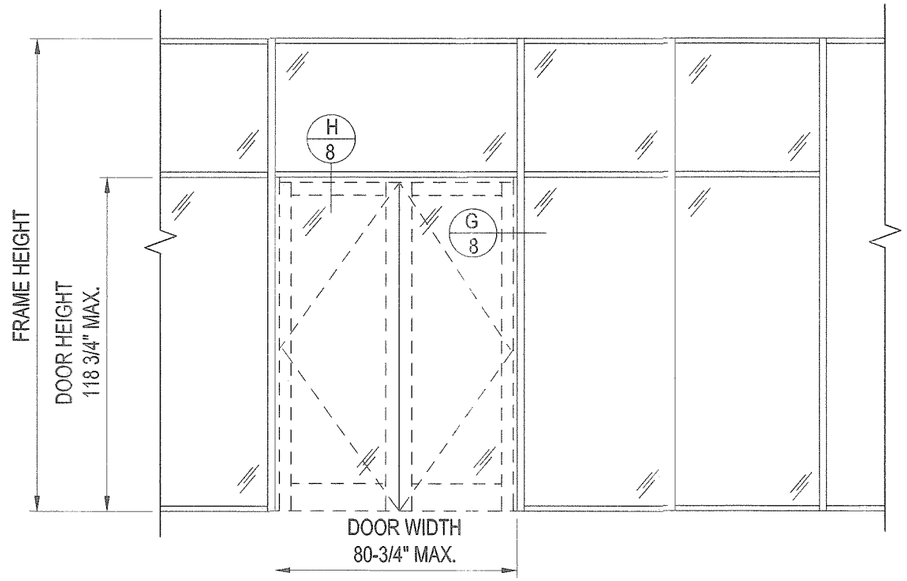

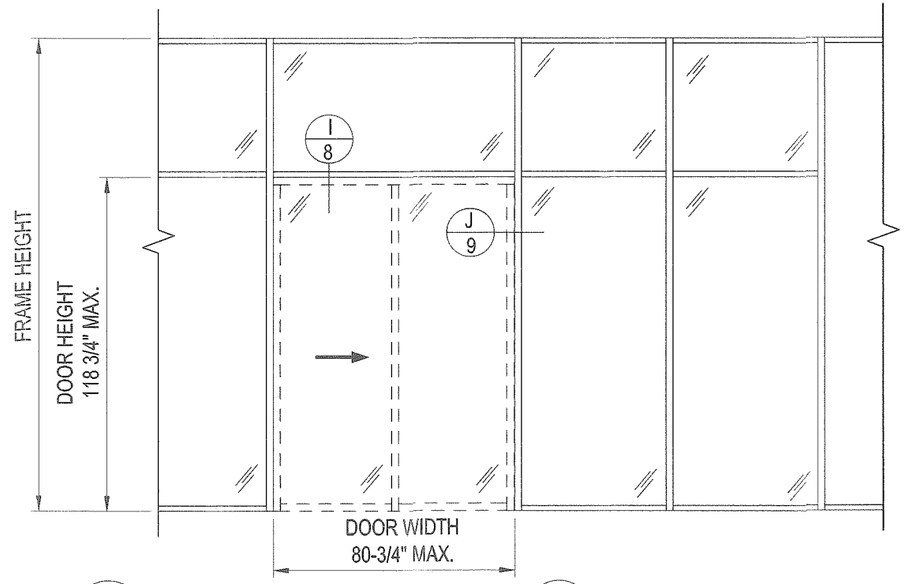

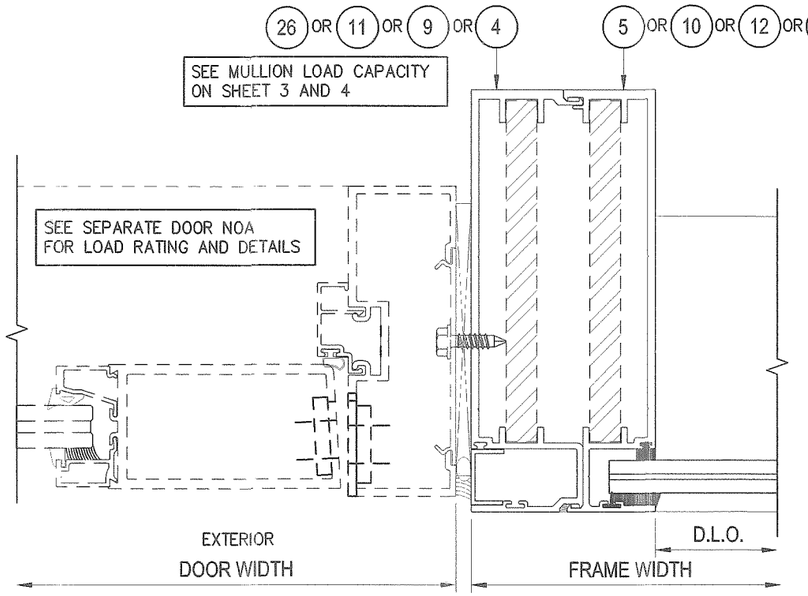

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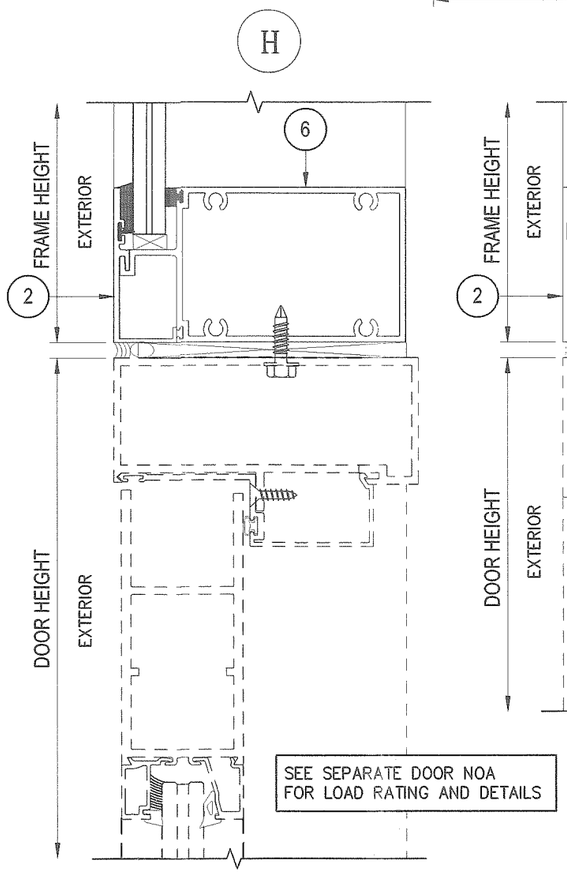

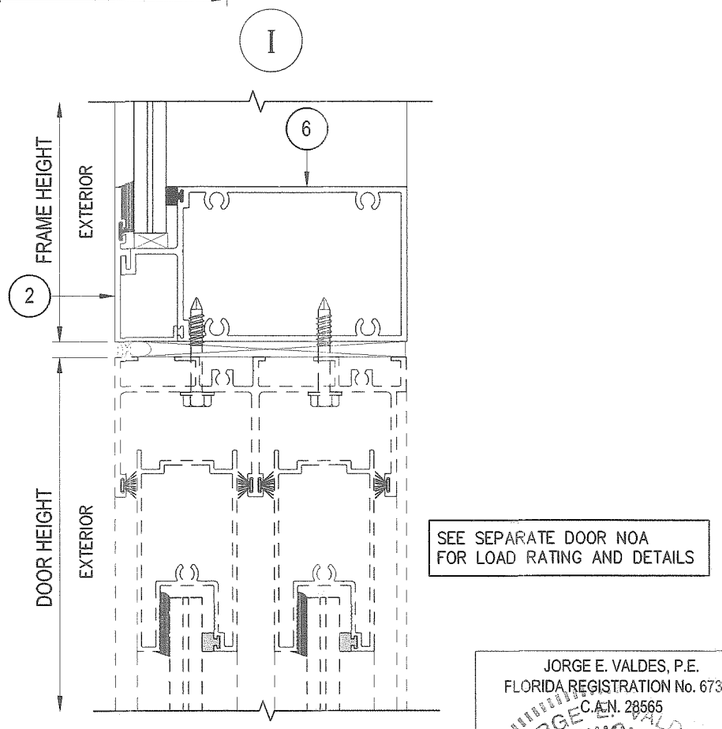

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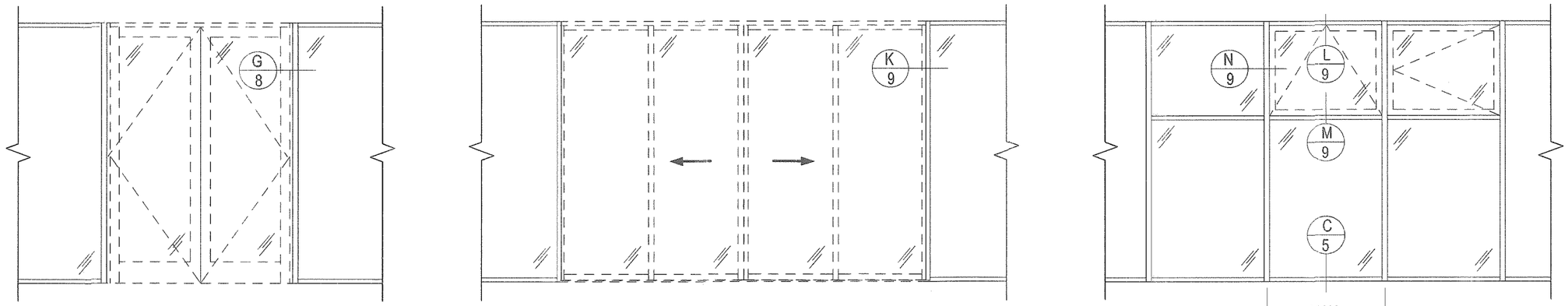
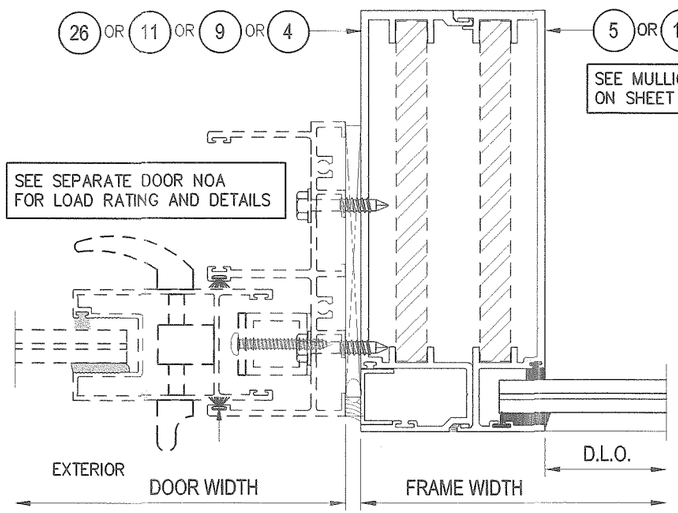
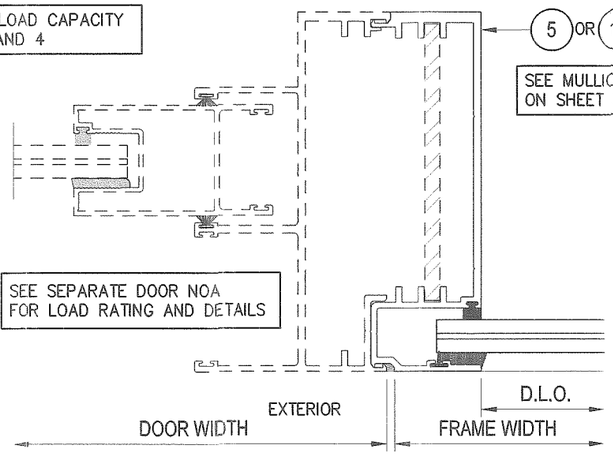
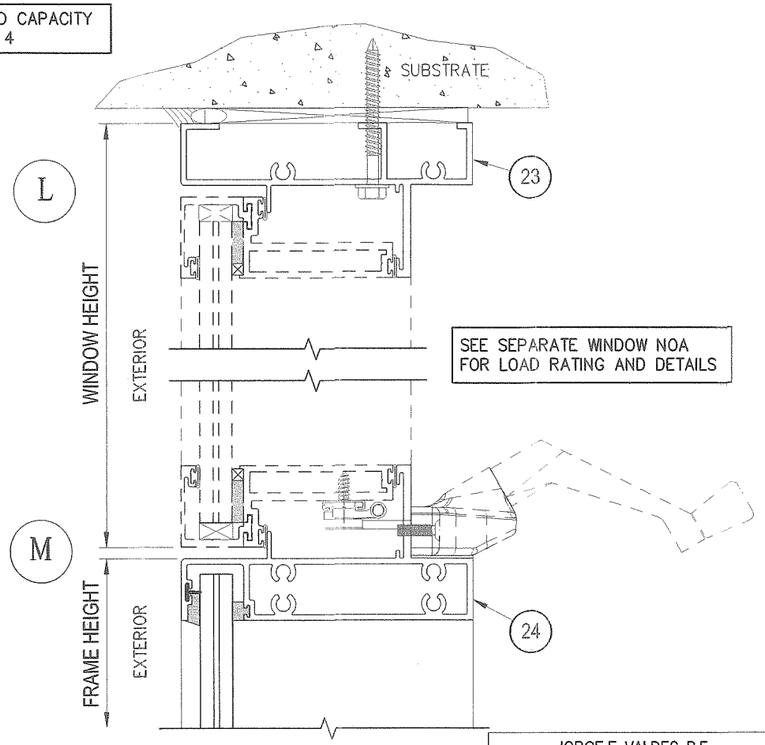
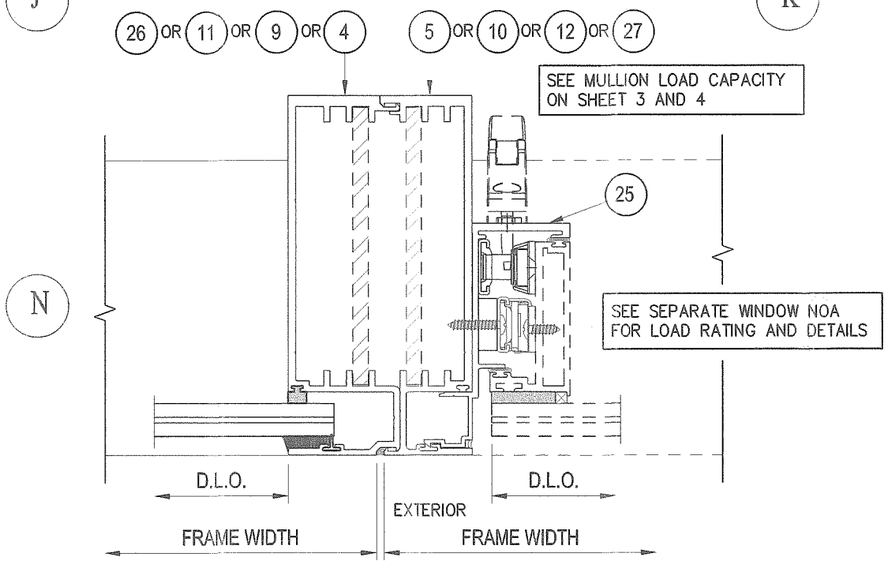
SHEET 8 OF 11











PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 22-0613.02
Expiration Date: 12/11/2024
By: Manuel Perez
Miami-Dade Product Control

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

JORGE E. VALDES LICENSE No. 67398 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/21/2022

Miami Wall Systems, Inc.
701 WEST 25TH STREET
HIALEAH, FLORIDA, 33010
TEL: (305) 888-2300 FAX: (305) 886-3058

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

REV.	DATE	DESCRIPTION
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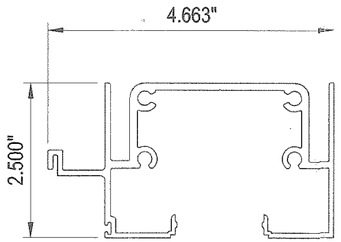
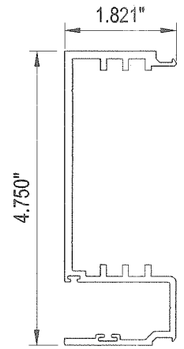
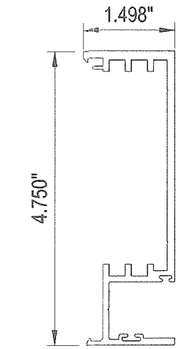
DWG. BY: RP
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 9 OF 11



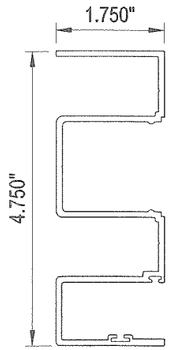
1
HEAD / SILL FRAME
101-401
TYP. WALL THK = 0.078"
ALUM. ALLOY 6063-T6



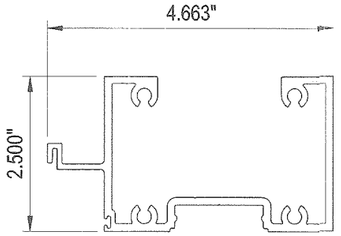
4
MALE VERTICAL MULLION
101-404
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



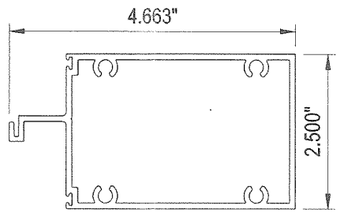
5
FEMALE VERTICAL MULLION
101-405
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



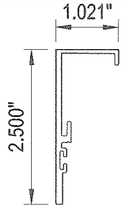
8
JAMB FRAME
101-408
TYP. WALL THK = 0.100"
ALUM. ALLOY 6063-T6



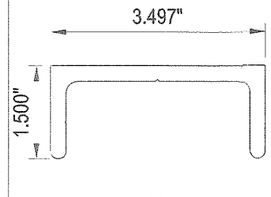
28
ALTERNATE HEAD FRAME
101-417
TYP. WALL THK = 0.078"
ALUM. ALLOY 6063-T6



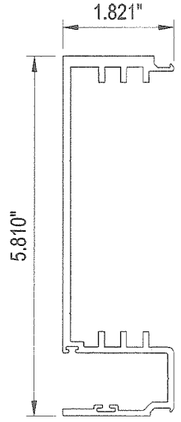
6
HORIZONTAL MEETING RAIL
101-406
TYP. WALL THK = 0.078"
ALUM. ALLOY 6063-T6



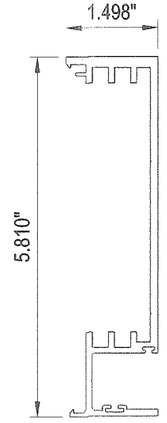
2
FRAME GLAZING BEAD
101-402
TYP. WALL THK = 0.110"
ALUM. ALLOY 6063-T6



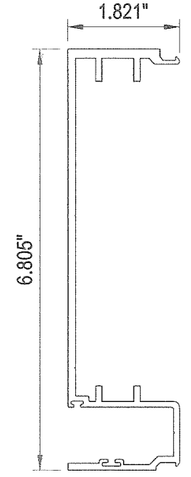
13
CHANNEL
101-413
TYP. WALL THK = 0.250"
ALUM. ALLOY 6005A-T61



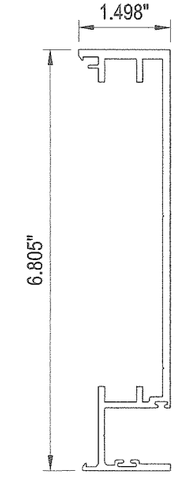
9
MEDIUM MALE VERTICAL MULLION
101-409
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



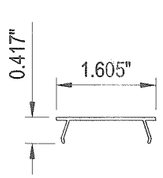
10
MEDIUM FEMALE VERTICAL MULLION
101-410
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



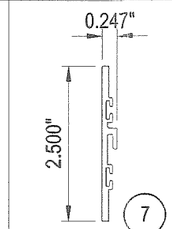
11
HEAVY MALE VERTICAL MULLION
101-411
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



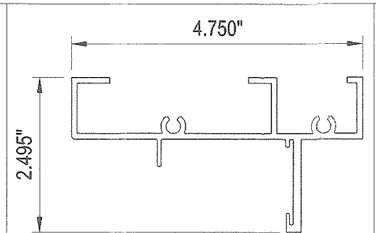
12
HEAVY FEMALE VERTICAL MULLION
101-412
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



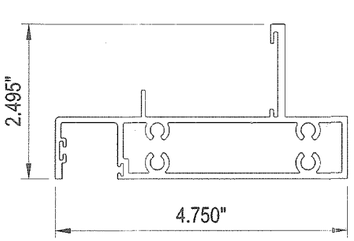
3
FASTENER COVER
101-403
TYP. WALL THK = 0.050"
ALUM. ALLOY 6063-T6



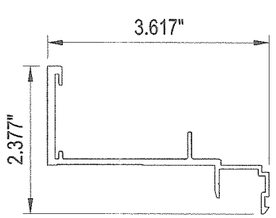
7
GLAZING BEAD AT MTG. RAIL
101-407
TYP. WALL THK = 0.110"
ALUM. ALLOY 6063-T6



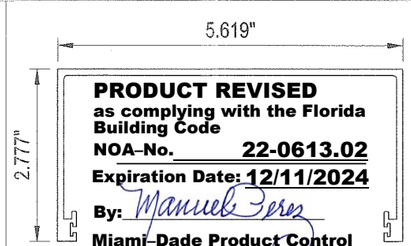
23
ZERO SL FRAME
2061-001
TYP. WALL THK = 0.093"
ALUM. ALLOY 6063-T6



24
ZERO SL MEETING RAIL
2061-002
TYP. WALL THK = 0.093"
ALUM. ALLOY 6063-T6



25
ZERO SL ADAPTOR
2061-005
TYP. WALL THK = 0.100"
ALUM. ALLOY 6063-T6



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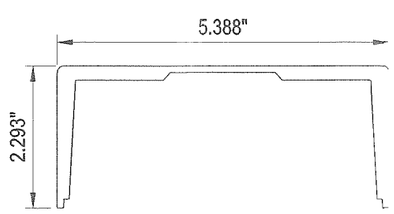
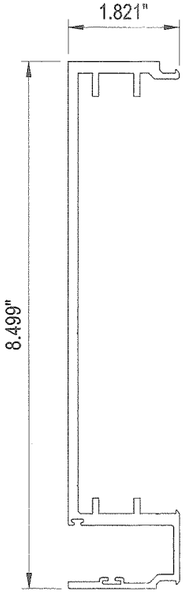
NOA No. 22-0613.02
Expiration Date: 12/11/2024
By: Manuel Perez
Miami-Dade Product Control

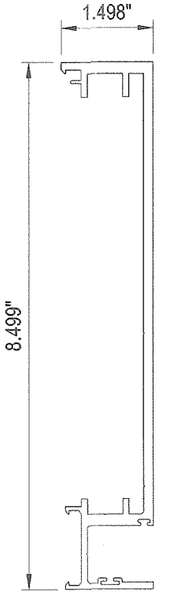
14
HEAD RECEPTOR
101-423
TYP. WALL THK = 0.090"
ALUM. ALLOY 6063-T6



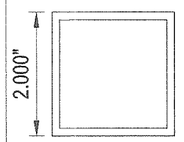
15
HEAD RECEPTOR REINFORCEMENT
101-424
TYP. WALL THK = 0.229"
ALUM. ALLOY 6005A-T61



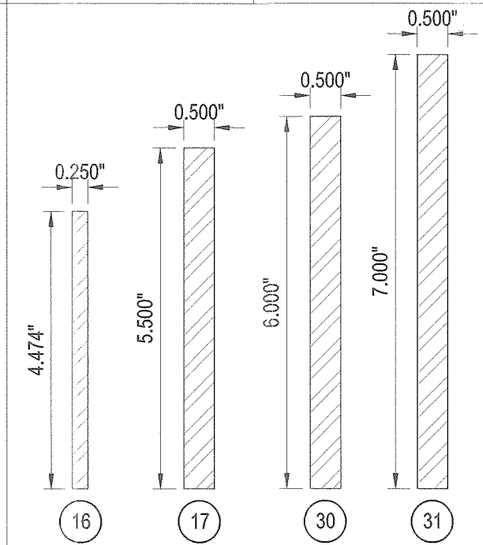
26
EXTRA HEAVY
MALE VERTICAL MULLION
101-414
TYP. WALL THK = 0.156"
ALUM. ALLOY 6063-T6



27
EXTRA HEAVY
FEMALE VERTICAL MULLION
101-415
TYP. WALL THK = 0.156"
ALUM. ALLOY 6063-T6



29
SQUARE TUBE
TYP. WALL THK = 0.125"
ALUM. ALLOY 6063-T6



16 17 30 31
REINFORCEMENT BARS
STEEL A36

JORGE E. VALDES, P.E.
FLORIDA REGISTRATION No. 67398
C.I.A.N.: 28565
JORGE E. VALDES LICENSE No. 67398 JUN 06 2022 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.)

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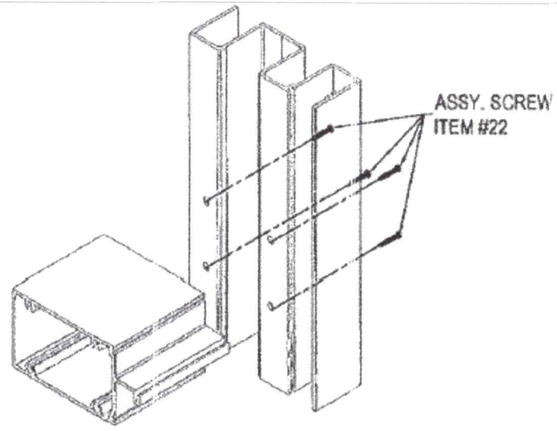
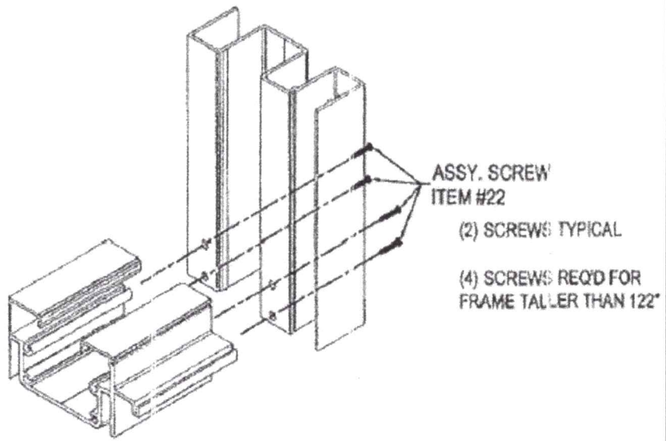
DATE: 10/21/2014
SCALE: AS NOTED
DWG. BY: RP
CHK. BY: JV
DWG. NO.: 101-SMI
SHEET 10 OF 11



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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Miami-Dade Product Control

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